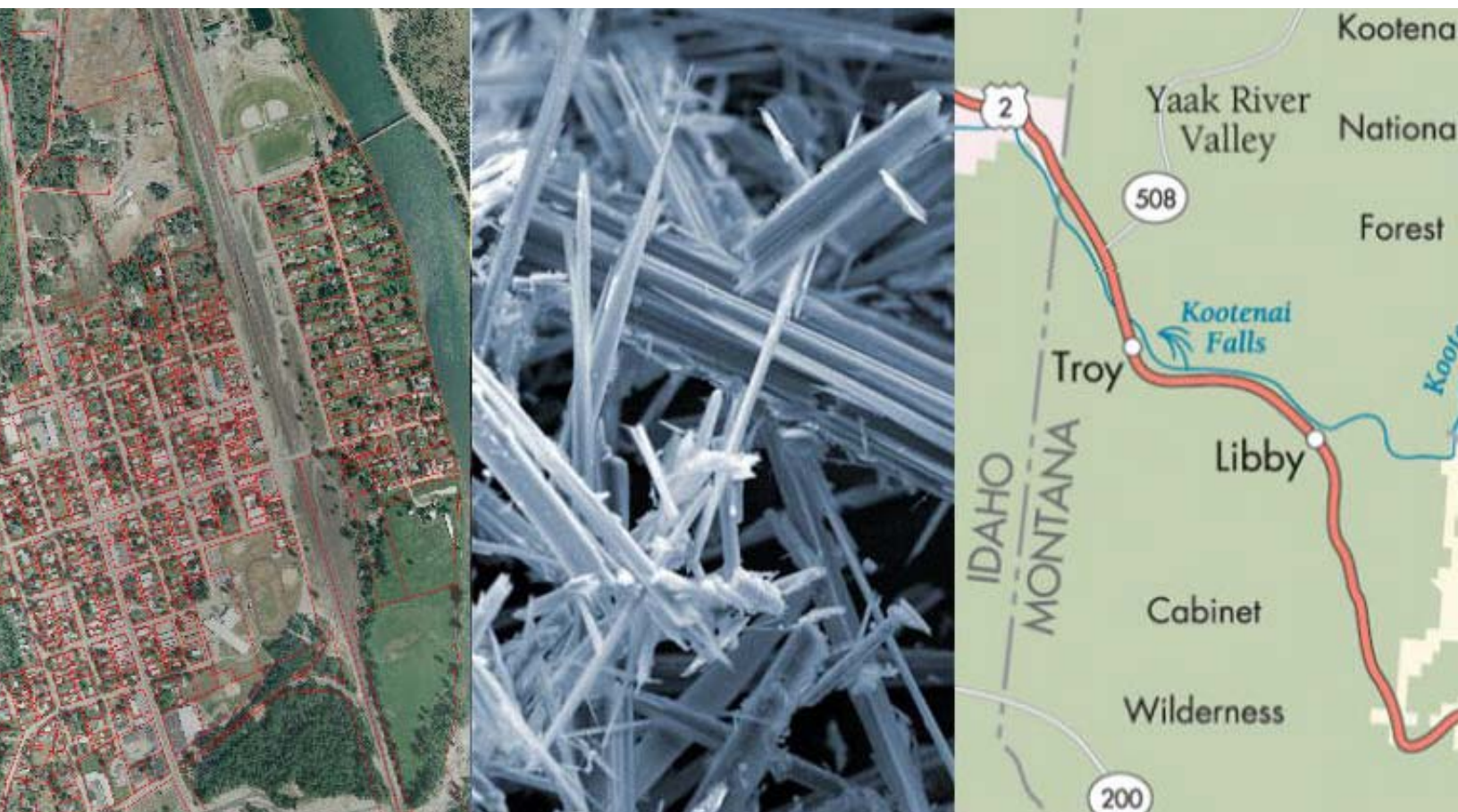


Final Quarter 4 Memorandum Outdoor Ambient Air Study

Operable Unit Number 7 of the
Libby Asbestos Superfund Site



Prepared for:

Montana Department of Environmental Quality

Helena Montana

Prepared by:

Tetra Tech

Helena, Montana

December 2010

**FINAL
QUARTER 4 MEMORANDUM
OUTDOOR AMBIENT AIR STUDY**

**Operable Unit Number 7
of the Libby Asbestos Superfund Site**

December 15, 2010

Prepared for:

MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY
Remediation Division
P.O. Box 200901
Helena, Montana 59620

Contract Number 407026
Contract Task Order Number 47

Prepared by:

TETRA TECH EM INC.
Power Block Building, Suite 612
7 West 6th Avenue
Helena, Montana 59601
(406) 442-5588

CONTENTS

<u>Section</u>	<u>Page</u>
LIST OF ACRONYMS AND ABBREVIATIONS.....	ii
1.0 INTRODUCTION	1
2.0 QUARTER 4 AMBIENT AIR MONITORING PLAN IMPLEMENTATION	1
2.1 QUARTER 4 SAMPLING SCHEDULE	4
2.2 ISSUES AND RESOLUTIONS	4
2.2.1 Troy Ambient Air Analytical Database Data Entry Issues	4
2.2.2 Modifications to Ambient Air Sampling Protocol	5
2.2.3 Pump Failures and Repairs	5
3.0 QUARTER 4 OUTDOOR AMBIENT AIR MONITORING DATA	5
3.1 DATA VALIDATION PROCEDURES AND FINDINGS	5
3.1.1 Selection of TEM Records for Review	6
3.1.2 Consistency Review of Laboratory Bench Sheets	6
3.1.3 Verification of Data Transfer from Bench Sheet to Database	7
3.1.4 Review of Field and Laboratory Quality Control Sample Results.....	8
3.2 AMBIENT AIR LA DETECTIONS	9
4.0 REFERENCES	10

Appendices (Provided on attached CD)

A	QUARTER 4 OUTDOOR AMBIENT AIR SAMPLING FSDS SHEETS AUGUST 5, 2010 THROUGH OCTOBER 28, 2010
B	QUARTER 4 OUTDOOR AMBIENT AIR SAMPLING VALIDATED ANALYTICAL RESULTS

TABLES

<u>Table</u>	<u>Page</u>
2-1 Outdoor Ambient Air Sampling Locations.....	3
2-2 OU7 Outdoor Ambient Air Sampling Quarter 4 Sample Period Dates	4

FIGURE

<u>Figure</u>	<u>Page</u>
2-1 OU7 Air Sampling Station Locations	2

LIST OF ACRONYMS AND ABBREVIATIONS

AA Database	Ambient Air Analytical Database
COC	Chain-on-custody
DEQ	Montana Department of Environmental Quality
EDD	Electronic data deliverables
ESAT	Environmental Services Assistance Team
FSDS	Field sampling data sheet
ISO	International Organization for Standardization
LA	Libby amphibole
OU7	Operable Unit Number 7
QC	Quality control
SOP	Standard operating procedure
SRC	Syracuse Research Corporation
TEM	Transmission electron microscopy
Tetra Tech	Tetra Tech EM Inc.

1.0 INTRODUCTION

As part of the remedial investigation in Operable Unit Number 7 (OU7), which consists of the residential and commercial areas in and around Troy, Montana of the Libby Asbestos Superfund Site, Tetra Tech EM Inc. (Tetra Tech) continued to conduct outdoor ambient air monitoring for the Montana Department of Environmental Quality (DEQ) to evaluate the presence of Libby Amphibole (LA) asbestos in outdoor ambient air throughout OU7.

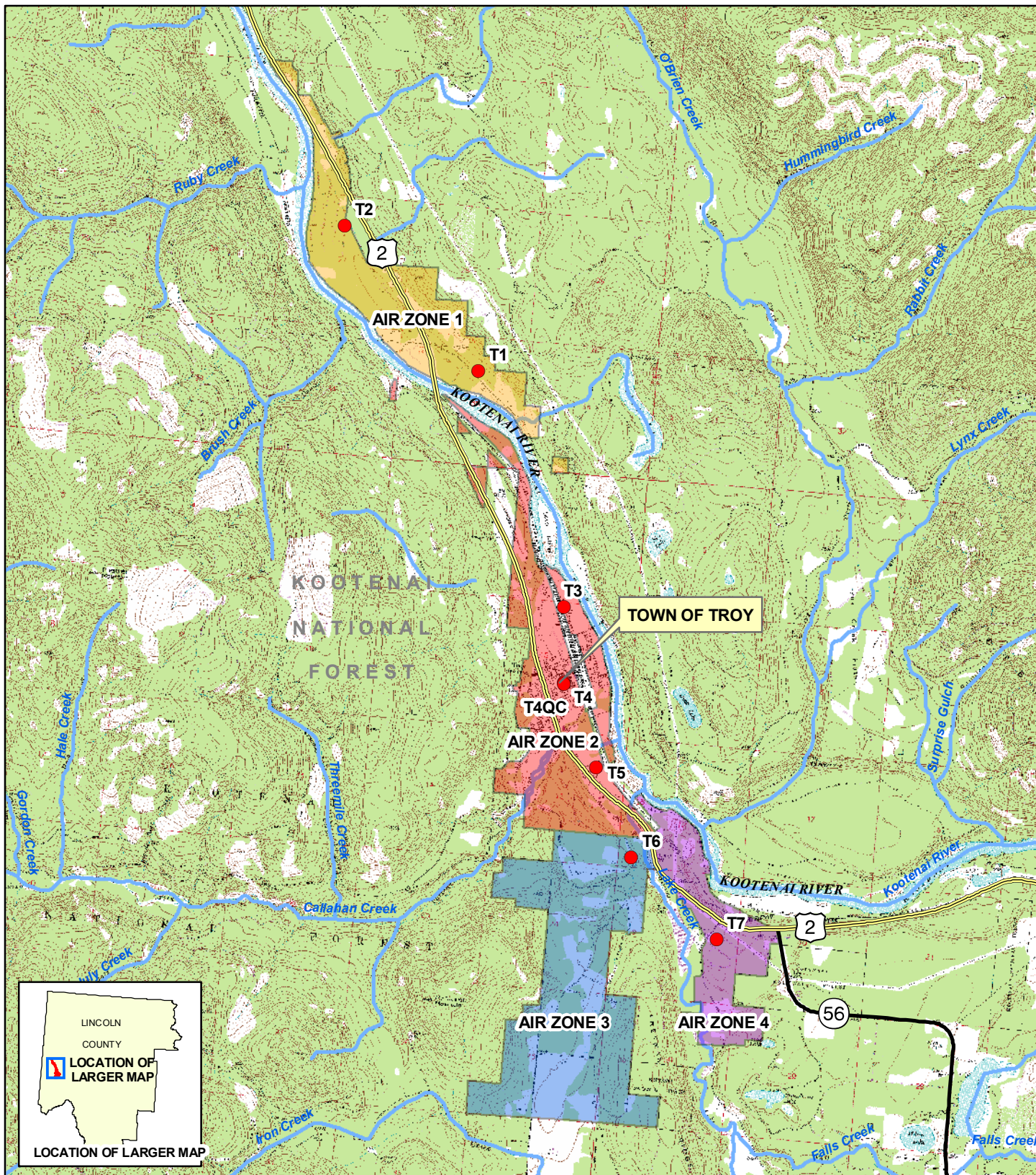
The outdoor ambient air monitoring program implemented by Tetra Tech is based on the Remedial Investigation Work Plan, Outdoor Ambient Air Study (Tetra Tech 2009a) and the associated health and safety plan (Tetra Tech 2009b) and includes monitoring of ambient air in four distinct “air zones” across OU7. After taking into account variable wind patterns, Tetra Tech established seven monitoring station locations in the four air zones to evaluate human health exposure scenarios throughout OU7.

This quarter 4 memorandum summarizes activities related to monitoring station maintenance performed, outdoor ambient air monitoring activities conducted, issues encountered, and resolutions from the period of August 5, 2010 through October 28, 2010 of the outdoor ambient air monitoring program. This report also provides a summary of validated ambient air data available at the time this document was prepared (Sampling Periods 19 through 23 [collected during quarter 3]).

Complete analytical data from outdoor ambient air monitoring stations through quarter 4 were not available for incorporation into this memorandum as data has yet to be validated. At the request of DEQ, validation has been delayed until data is properly loaded into the Troy Ambient Air Analytical Database (AA Database). Once the data is loaded, quarter 4 validation efforts will be completed. However, sampling periods 19 through 23 were validated during quarter 4 using methods described in Section 3.1 and the results are presented in this memorandum. A discussion relating to the limited validation of analytical data is provided in Section 2.4 (Outdoor Ambient Air Monitoring, Issues and Resolutions).

2.0 QUARTER 4 AMBIENT AIR MONITORING PLAN IMPLEMENTATION

Quarter 4 OU7 outdoor ambient air monitoring was initiated on August 5, 2010 and was the final quarter of year one of monitoring that began in October of 2009. Initial field activities such as selection of site monitoring stations and assembly and installation of monitoring equipment are described in the Quarter 1 Memorandum (Tetra Tech 2010). Figure 2-1 shows the monitoring station locations and Table 2-1 provides the general and detailed locations and rationale for selecting the seven station locations.



LIBBY ASBESTOS SUPERFUND SITE

**FIGURE 2-1
OPERABLE UNIT 7
AMBIENT AIR MONITORING
STATION LOCATIONS**

LEGEND

● OU 7 AMBIENT AIR SAMPLE STATION

AMBIENT AIR ZONES

■ ZONE 1

■ ZONE 2

■ ZONE 3

■ ZONE 4

0 1 Miles



TABLE 2-1
OUTDOOR AMBIENT AIR SAMPLING LOCATIONS

Station Number	General Location*	Detailed Location	Purpose
T1	Community exposure site and upper-middle boundary of OU7, located at the small community area NE of the Kootenai River	Residential property at North River Road <i>Long -115.9109194</i> <i>Lat 48.49736625</i>	This site is used to evaluate LA concentrations at the small community area and the upper-middle boundary of OU7
T2	Upwind/downwind site near the NW border of OU7	Fire station at Forest Drive at Vacation Road in Kootenai Vista <i>Long -115.9355267</i> <i>Lat 48.5124475</i>	This site is used to evaluate LA concentrations at the northern boundary of OU7
T3	City of Troy northern site	Water treatment station at north end of Roosevelt Park <i>Long -115.893191033333</i> <i>Lat 48.47169145</i>	This site is used to evaluate LA concentrations north of the Troy community
T4	City of Troy population exposure site	DEQ Troy Information Center at 303 Third Street <i>Long -115.89226045</i> <i>Lat 48.4631302166667</i>	This site is used to evaluate LA concentrations in the Troy community (specifically in the population center).
T4QC	City of Troy population exposure site	DEQ Troy Information Center at 303 Third Street <i>Long -115.89226045</i> <i>Lat 48.4631302166667</i>	Co-located sample station of T4
T5	City of Troy southern site	North of Highway Department Shop within fenced sewer lift station enclosure on 11 th Street <i>Long -115.8855304</i> <i>Lat 48.45401671</i>	This site is used to evaluate LA concentrations south of the Troy community
T6	Upwind/downwind site near the SW boarder of OU7	Water tower at Iron Creek Rd. ¾ mile south of Hwy 2 <i>Long -115.878429133333</i> <i>Lat 48.4441892166667</i>	This site is used to evaluate LA concentrations at the SW boundary of the OU and confirm if any LA is entering or leaving OU7
T7	Upwind/downwind site near the SE boarder of OU7	Residential property at corner of Hummingbird Way and Bighorn Way in Wilderness Plateau <i>Long -115.862912383333</i> <i>Lat 48.4357253333333</i>	This site is used to evaluate LA concentrations at the SE boundary of the OU

Notes:

LA	Libby Amphibole	SE	Southeast	Lat	Latitude
NE	Northeast	SW	Southwest	Long	Longitude
NW	Northwest	OU7	Troy Operable Unit		

* Predominant winds in the area blow from the southeast and northwest. Stations on the southeast and northwest boundaries of OU7 will act as upwind and downwind receptors depending on wind direction.

During quarter 4 monitoring, sampling activities were completed with no technical or mechanical issues and none of the seven stations were moved. No additional modifications to sampling protocol were instituted.

2.1 QUARTER 4 SAMPLING SCHEDULE

Quarter 4 ambient air sampling consisted of 9 five-day sampling periods generally separated by five off days between each period. Between some sampling periods, the five days were modified by one or two days to adjust for weather or scheduling issues, however, the overall sampling schedule was not impacted. Quarter 4 sampling began with Period 28 on August 5, 2010 and ended with Period 36 on October 28, 2010. Table 2-2 provides a summary of sampling dates for periods 28 through 36.

**TABLE 2-2
OU7 OUTDOOR AMBIENT AIR SAMPLING
QUARTER 4 SAMPLE PERIOD DATES**

QUARTER 4 SAMPLE PERIODS	
Sample Period 28	August 5, 2010 through August 9, 2010
Sample Period 29	August 15, 2010 through August 19, 2010
Sample Period 30	August 25, 2010 through August 29, 2010
Sample Period 31	September 4, 2010 through September 8, 2010
Sample Period 32	September 14, 2010 through September 18, 2010
Sample Period 33	September 24, 2010 through September 28, 2010
Sample Period 34	October 4, 2010 through October 8, 2010
Sample Period 35	October 14, 2010 through October 18, 2010
Sample Period 36	October 24, 2010 through October 28, 2010

2.2 ISSUES AND RESOLUTIONS

During quarter 4 sampling, no technical or mechanical issues arose that compromised data collection or data usability. Issues related to entry of analytical results into the database during quarter 4 ambient air activities are summarized below.

2.2.1 Troy Ambient Air Analytical Database Data Entry Issues

Tetra Tech completed data validation on ambient air data through period 23 (middle of quarter 3), after which period, DEQ requested that Tetra Tech delay validation efforts until all analytical data could be uploaded into the AA Database. Prior to this direction from DEQ, the Tetra Tech chemist manually sorted and recorded data instead of performing a simple query for the pertinent data in the AA Database. Tetra Tech has not yet validated the quarter 4 analytical results, as these data are not yet in the AA

Database. Data validation will resume once all quarter 4 analytical data has been uploaded into the AA Database.

2.2.2 Modifications to Ambient Air Sampling Protocol

No modifications to ambient air sampling protocol were required during quarter 4 sampling.

2.2.3 Pump Failures and Repairs

No pump failures occurred and no pump repairs were required during quarter 4 sampling.

3.0 QUARTER 4 OUTDOOR AMBIENT AIR MONITORING DATA

During this reporting period, samples from periods 28 through 36 were submitted to the Environmental Services Assistance Team (ESAT) laboratory for Transmission Electron Microscopy (TEM) analyses. All sample filter cassettes were shipped to the ESAT Laboratory in Golden, Colorado, under chain-of-custody (COC) protocol, where the samples were stored in a desiccator to prevent the growth of mold prior to analysis.

During quarter 4, sample results for periods 19 to 23 were validated. The following sections provide a description of the data validation procedures used, data validation findings, and also provide a summary of LA detections noted during sample periods 19 to 23.

3.1 DATA VALIDATION PROCEDURES AND FINDINGS

During quarter 4, Tetra Tech conducted data review and data entry verification of the outdoor ambient air TEM data from sampling periods 19 through 23 in accordance with standard operating procedure (SOP) EPA-LIBBY-09 (revision 1) (Syracuse Research Corporation [SRC] 2008). A copy of this SOP is contained in Appendix F of the Remedial Investigation Work Plan, OTDOOR Ambient Air Study (Tetra Tech 2009a). Tetra Tech followed the data review and verification procedures outlined in SOP EPA-LIBBY-09, with minor deviations for OU7. Examples of OU7-specific deviations include: (1) the SOP refers to the Libby 2 Database; however, OU7 data is stored in the Troy Ambient Air Sampling Database and the AA Database using the same database protocols, (2) the SOP describes the process for randomly selecting TEM records for review and verification. Approximately 25 percent of the period 19 through 23 records underwent review and verification. For these records, rather than random selection from the AA Database as described in the SOP, records were hand selected for review and verified based on result type (detected LA) and sample type (field duplicate pairs and field blanks). Remaining data validation will be

completed once analytical data are entered into the AA Database and can be randomly selected as per the SOP.

Tetra Tech's review and verification process has three steps: (1) the selection of data records for review and verification, (2) a review of the original laboratory bench sheets, and (3) verification of the transfer of results from the bench sheets onto the electronic data deliverables that will be uploaded to the AA Database. Tetra Tech reviewed field and laboratory quality control (QC) sample results for adherence to minimum frequency requirements and procedures and QC limits in SOP LB-000029b (SRC 2008), and qualified the associated field data accordingly. The data verification and validation process is described in detail in the subsections below.

3.1.1 Selection of TEM Records for Review

Since the incidence of significant errors (e.g. incorrect transfer of structure counts from bench sheets to electronic data deliverables [EDDs]) noted during analysis of early samples (from quarter 1) has been addressed, the number of records selected for review was reduced from 100 percent to approximately 25 percent of the period 19 through 23 field samples (SOP EPA-Libby-09 specifies a 10 percent selection rate). The reduction in percentage of samples selected for validation was discussed with DEQ based on an increased confidence in laboratory reporting and will be lowered to the SOP-specified rate of 10 percent in later rounds if confidence levels remain high. Records reviewed were selected on the basis of result type (detected LA) and sample type (field duplicate pairs and field blanks) because a random selection technique through the AA Database was not available.

3.1.2 Consistency Review of Laboratory Bench Sheets

Tetra Tech inspected the information recorded on the original hand-written laboratory bench sheets in accordance with the consistency review of laboratory bench sheets procedure outlined in Section 5 of SOP EPA-LIBBY-09 (revision 1) (SRC 2008) which is modified as needed for OU7. The bench sheets were reviewed to identify any data omissions, apparent inconsistencies, or potential errors in structure. The review entailed determining whether the raw structure data were recorded in accordance with International Organization for Standardization (ISO) 10312 counting rules (as modified by all applicable Libby laboratory modifications).

Corrective Action – Tetra Tech summarized all apparent inconsistencies, omissions, and suspected errors, and provided them to ESAT, which forwarded them to the appropriate labs for response, as deemed appropriate. The ESAT laboratory determined which items were authentic errors that require

correction. None of the inconsistencies, omissions, or suspected errors identified during data review and verification performed during quarter 4 affects the outcome of interest to the investigation (i.e., the number of LA structures or the concentration of LA). Tetra Tech anticipates the analytical laboratories will submit further revised bench sheets to ESAT. Tetra Tech will download the revised documents provided by ESAT, review them, and replace the previous ones as appropriate.

3.1.3 Verification of Data Transfer from Bench Sheet to Database

To ensure that data from laboratory bench sheets are transferred, via the EDDs, into the AA Database without error or omission, Tetra Tech compared the selected analysis-specific information in the laboratory bench sheets to that in the EDD. Tetra Tech followed the verification of data transfer procedure outlined in Section 6.0 of SOP EPA-LIBBY-09 (revision 1) (SRC 2008), modified as needed for OU7. The bench sheets include the laboratory COC form, sample check-in form, preparation log, and hand-written data record sheets. This process entailed comparing analysis-specific information in the EDD to the original laboratory job documentation (e.g., internal laboratory COC; preparation logs; bench sheets, etc.); and included verifying (by recalculation) the reported air sensitivities for amphibole and chrysotile; the area analyzed; and for indirect preparations, the indirect preparation dilution factor. Using the bench sheets, Tetra Tech also recounted the countable LA structures across all grid openings evaluated and compared this number (and the calculated concentrations) to the total number of LA structures in the EDD.

The final step in this process will be to verify the data are loaded into the AA Database without error or omission. Since the analytical data are not yet ready for use in the AA Database, this step has not been completed. Theoretically, the information in the EDDs will match that in the database; however, a final verification step is recommended and will be completed.

Corrective Action – Tetra Tech summarized all apparent inconsistencies, omissions, and suspected errors, and provided them to ESAT, which forwarded them to the appropriate labs for response, as deemed appropriate. The ESAT laboratory determined which items were authentic errors that require correction. None of the inconsistencies, omissions, or suspected errors identified during data review and verification performed during quarter 4 affects the outcome of interest to the investigation (i.e., the number of LA structures or the concentration of LA). Tetra Tech anticipates the analytical laboratories will submit further revised bench sheets to ESAT. Tetra Tech will download the revised documents provided by ESAT, review them, and replace the previous ones as appropriate.

A similar corrective action process is expected for the final verification step (review of the uploaded analytical data in the AA Database).

3.1.4 Review of Field and Laboratory Quality Control Sample Results

Review of field and laboratory quality control sample results, including implementation of corrective actions, will be completed once all year one QC sample data are loaded into the AA database. At present, a limited amount of this data has been loaded; however, it is expected that the entire year one data will be available in the AA database in the near future and will allow for a complete review and implementation of corrective actions if necessary.

Tetra Tech reviews field QC samples (including co-located samples and field blanks) and laboratory QC samples (including laboratory blanks, recounts, and repreparations) for adherence to the minimum frequency requirements in the work plan (Tetra Tech 2009a) and in SOP LB-000029b (SRC 2007).

Laboratory QC sample results are evaluated by the laboratory and field QC sample results are evaluated by Tetra Tech, for conformance with the QC limits specified in SOP LB-000029b (SRC 2007). For the co-located field samples, Tetra Tech will use the same statistical comparison test used for the Libby ambient air study (SRC 2009). Each co-located sample pair will be compared using the Poisson rate test (Nelson 1982) included as Attachment 4 to SOP LB-000029b (SRC 2007), to determine whether the results are statistically different from one other at the 95 percent confidence level. The Poisson rate test is suitable for this analysis because fiber counts on TEM grids are considered to be independent and random.

Corrective Action –For laboratory QC sample exceptions to QC criteria, the appropriate corrective actions are described in detail in LB-000029b (SRC 2007). For co-located field sample pairs, Tetra Tech will review the Poisson rate test results and investigate the basis for any statistical differences and the need for any appropriate corrective actions. Poisson rate test results that indicate the co-located samples are similar at the 95 percent confidence interval will be considered good. Test results in the 90 to 95 percent confidence interval range will be considered acceptable, and test results that fall below the 90 percent confidence interval will be considered poor for similarity. If test results are below the 90 percent interval, Tetra Tech will investigate the basis for the discrepancy and take corrective action in sampling and/or analysis of the samples, as appropriate. Tetra Tech will, as a rule, report the results from the original sample (as opposed to co-located or laboratory recount results). A possible exception to this rule is an ESAT interlab recount result. If, during validation, an interlab recount result is deemed to be more

representative than the original result, Tetra Tech will discuss these findings with DEQ and report whichever result is determined to be most representative.

Tetra Tech has reviewed and will continue to review the results for all field blanks for adherence to the QC limits specified in SOP LB-000029b (SRC 2007). All of the blank results received to date are within QC limits.

3.2 AMBIENT AIR LA DETECTIONS

LA fibers were not detected in any of the 45 ambient air samples collected from period 19 to 23 samples at any of the 7 stations. Complete analytical results and a summary of validation findings for sample periods 19 to 23 are provided in Appendix B.

4.0 REFERENCES

- Nelson, WB. 1982. Applied Life Data Analysis. John Wiley and Sons. Hoboken, NJ.
- Syracuse Research Corporation (SRC). 2007. Request for Modification to Laboratory Activities (LB-000029B). April.
- SRC. 2008. Standard Operating Procedure for TEM Data Review and Data Entry Verification. March.
- SRC. 2009. Summary of Outdoor Ambient Air Monitoring For Asbestos at the Libby Asbestos Superfund Site (October 2006 to June 2008). February.
- Tetra Tech EM Inc. (Tetra Tech). 2009a. Remedial Investigation Work Plan, Outdoor Ambient Air Study, Operable Unit 7 of the Libby Asbestos Superfund Site. October.
- Tetra Tech. 2009b. Operable Unit 7 Ambient Air Study Health and Safety Plan. October.
- Tetra Tech. 2010. First Quarter Memorandum, Outdoor Ambient Air Study, Operable Unit 7 of the Libby Asbestos Superfund Site. February.

APPENDICES

(Appendices are provided on the attached disk)

APPENDIX A

**QUARTER 4 OUTDOOR AMBIENT AIR SAMPLING
FIELD SAMPLING DATA SHEETS (FSDS)
AUGUST 5, 2010 THROUGH OCTOBER 28, 2010**

APPENDIX B

**SAMPLE PERIOD 19 THROUGH 23 AMBIENT AIR SAMPLING VALIDATED ANALYTICAL
RESULTS**

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0256

Station Location: Field Blank

Sample ID #:

Field Technician: DrFilter Lot #: 19828-02Pump Type/Model: —Sample Type: TEMPump Number: —Sample Parent ID #: —Sampling Period 28

PUMP SETUP DAY

Date: 8-4-10Timer Beginning Date/Time: 8-5-10 / 12:00 PMTime: 7:40 AMBeginning Flow Rate (L/min): —Pump Programmed (Yes / No): —Bios Calibration Within 10 mL (Yes / No): —

PUMP RETRIEVAL DAY

Date: —Timer Ending Date/Time: —Time: —Ending Flow Rate (L/min): —Total Sample Volume (L): —Total Sample Time (min): —Atmospheric Pressure (INS): —Temperature inside station unit (°F): —

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: Ing JordanDATE: 8-4-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0248

Station Location: T-1 (Tony's Rental)

Sample ID #: _____

Field Technician: 99Filter Lot #: 19828-02Pump Type/Model: SKC AirChek 2000Sample Type: TEMPump Number: 36423Sample Parent ID #: —Sampling Period: 28

PUMP SETUP DAY

Date: 8-4-10Timer Beginning Date/Time: 8-5-10/12:00AMTime: 7:45pmBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): YesBios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-10-10Timer Ending Date/Time: 8-10-10/12:00amTime: 2:53pmEnding Flow Rate (L/min): 2Total Sample Volume (L): 0FL0Total Sample Time (min): 7200Atmospheric Pressure (INS): 27.68Temperature inside station unit (°F): 72.0 Pump / 69 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: DATE: 8-10-10

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0248

Station Location: T-1 (Tony's Rental)
Field Technician:
Pump Type/Model: SKC AirChek 2000
Pump Number: 36423Sample ID #:
Filter Lot #: 19828-02

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-6-10 (98) Flow Rate (L/min): 2
Time: 2:35 PM () Cumulative Sample Volume (L): 4630
Cumulative Sample Time (min): 2315
Atmospheric pressure (mm Hg): 27.60
Temperature inside station unit (°F): 80.6 pump / 74 box
Battery voltage reading (volts): 12.77

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-9-10 (99) Flow Rate (L/min): 2
Time: 1:59 PM () Cumulative Sample Volume (L): 0 FLO
Cumulative Sample Time (min): 6598
Atmospheric Pressure (INS): 27.63
Temperature inside station unit (°F): 77.2 pump / 70 box
Battery voltage reading (volts): 12.76

~~DAILY CHECK (For each station visit)~~

~~(Field Tech Initials) PUMP FAULT (Yes / No):~~
~~Date: () Flow Rate (L/min):~~
~~Time: () Cumulative Sample Volume (L):~~
~~Cumulative Sample Time (min):~~
~~Atmospheric Pressure (INS):~~
~~Temperature inside station unit (°F):~~
~~Battery voltage reading (volts):~~

~~DAILY CHECK (For each station visit)~~

~~(Field Tech Initials) PUMP FAULT (Yes / No):~~
~~Date: () Flow Rate (L/min):~~
~~Time: () Cumulative Sample Volume (L):~~
~~Cumulative Sample Time (min):~~
~~Atmospheric Pressure (INS):~~
~~Temperature inside station unit (°F):~~
~~Battery voltage reading (volts):~~

~~DAILY CHECK (For each station visit)~~

~~(Field Tech Initials) PUMP FAULT (Yes / No):~~
~~Date: () Flow Rate (L/min):~~
~~Time: () Cumulative Sample Volume (L):~~
~~Cumulative Sample Time (min):~~
~~Atmospheric Pressure (INS):~~
~~Temperature inside station unit (°F):~~
~~Battery voltage reading (volts):~~

SKC Pump History**SN 36423****Date Printed: Tuesday, August 10, 2010 3:38 PM****Min Temp 59.4F****Max Temp 91.9F****TWA Temp 75.0F****Min Pressure 27.5 In-Hg****Max Pressure 28.0 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately +50.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Aug 4 2010 7:50 PM			5:06
Sleep		Wed Aug 4 2010 7:55 PM			4:04:22
Prog (Run)	2000	Thu Aug 5 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Aug 10 2010 12:00 AM			4:59
Sleep		Tue Aug 10 2010 12:05 AM			14:48:00
Hold		Tue Aug 10 2010 2:53 PM			5:15
Sleep		Tue Aug 10 2010 2:58 PM			38:11
Hold		Tue Aug 10 2010 3:36 PM			1:33+

Serial Number 36423

Aug 10, 2010

3:39 PM

Pump Real-Time Monitor

Pump
Status

Hold

Flow

2000

Volume

14400.13

Run Time

5d 0:00:04

Total Time

58d 21:14:55

Battery



Flow Calibrate

Approx Correction
+50.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min

59.4

Max

91.9

TWA

75.0

Ambient

74.0

Pressure (in-Hg)

27.55

27.95

27.64

27.78

Units Selection

☒ Fahrenheit☐ Celsius☒ in-Hg☐ millibar☐ mm-Hg

Fault Options

Time to Fault (sec)

15

Number of Tries

10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0249

Station Location: T-2 (Fire Station)

Sample ID #:

Field Technician: AD

Filter Lot #: 19828-02

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36424

Sample Parent ID #:

Sampling Period: 28

PUMP SETUP DAY

Date: 8-4-10

Timer Beginning Date/Time: 8-5-10/12:00AM

Time: 7:46PM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-10-10

Timer Ending Date/Time: 8-10-10/12:00AM

Time: 2:48PM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0.5 L

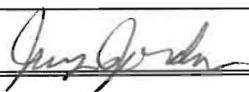
Total Sample Time (min): 7200

Atmospheric Pressure (INS): 28.03

Temperature inside station unit (°F): 83.4 pump / 85 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE:



DATE: 8-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0249

Station Location: T-2 (Fire Station)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-02

Pump Type/Model: SKC AirChek 2000

Pump Number: 36424

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-6-10 (JD)

Time: 2:31pm ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 4623

Cumulative Sample Time (min): 2311

Atmospheric Pressure (INS): 28.13

Temperature inside station unit (°F): 97.1 pump / 90 box

Battery voltage reading (volts): 12.73

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-9-10 (JD)

Time: 1:55pm ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 0 FLO

Cumulative Sample Time (min): 6595

Atmospheric Pressure (INS): 28.09

Temperature inside station unit (°F): 102.0 pump / 89 box

Battery voltage reading (volts): 12.59

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36424****Date Printed: Tuesday, August 10, 2010 3:49 PM****Min Temp 68.8F****Max Temp 113.1F****TWA Temp 87.6F****Min Pressure 27.8 In-Hg****Max Pressure 28.3 In-Hg****TWA Pressure 28.0 In-Hg****Flow Correction Approximately +60.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Aug 4 2010 7:55 PM			5:04
Sleep		Wed Aug 4 2010 8:00 PM			3:59:38
Prog (Run)	2000	Thu Aug 5 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Tue Aug 10 2010 12:00 AM			4:59
Sleep		Tue Aug 10 2010 12:05 AM			14:43:09
Hold		Tue Aug 10 2010 2:48 PM			5:19
Sleep		Tue Aug 10 2010 2:53 PM			55:12
Hold		Tue Aug 10 2010 3:48 PM			0:20+

Serial Number 36424

Aug 10, 2010
3:51 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
+60.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
68.8	113.1	87.6	82.7

Pressure (in-Hg)

27.83	28.28	28.05	28.19
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET

TA-0250

Station Location: T-3 (Water Treatment Station) Sample ID #:
Field Technician: DD Filter Lot #: 19828-02
Pump Type/Model: SKC AirChek 2000 Sample Type: TEM
Pump Number: 36442 Sample Parent ID #: —
Sampling Period: 28

PUMP SETUP DAY

Date: 8-4-10 Timer Beginning Date/Time: 8-5-10/12:00am
Time: 7:47pm Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-10-10 Timer Ending Date/Time: 8-10-10/12:00am
Time: 3:04pm Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FL0
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.94
Temperature inside station unit (°F): 78.3 pump/80 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: J. JordanDATE: 8-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-0250

Station Location: T-3 (Water Treatment Station) Sample ID #:
Field Technician: () Filter Lot #: 19828-02
Pump Type/Model: SKC AirChek 2000
Pump Number: 36442

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-6-10 () Flow Rate (L/min): 2
Time: 2:44pm () Cumulative Sample Volume (L): 4649
Cumulative Sample Time (min): 2324
Atmospheric Pressure (INS): 27.92
Temperature inside station unit (°F): 96.6 pump / 88.30x
Battery voltage reading (volts): 12.77

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-9-10 () Flow Rate (L/min): 2
Time: 2:07pm () Cumulative Sample Volume (L): 0840
Cumulative Sample Time (min): 6607
Atmospheric Pressure (INS): 27.95
Temperature inside station unit (°F): 93.4 pump / 84.80x
Battery voltage reading (volts): 12.67

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History**SN 36442****Date Printed: Tuesday, August 10, 2010 3:41 PM****Min Temp 63.1F****Max Temp 107.4F****TWA Temp 83.6F****Min Pressure 27.8 In-Hg****Max Pressure 28.2 In-Hg****TWA Pressure 27.9 In-Hg****Flow Correction Approximately +60.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Aug 4 2010 7:50 PM			5:01
Sleep		Wed Aug 4 2010 7:55 PM			4:04:20
Prog (Run)	2000	Thu Aug 5 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Aug 10 2010 12:00 AM			4:59
Sleep		Tue Aug 10 2010 12:05 AM			14:58:44
Hold		Tue Aug 10 2010 3:03 PM			5:15
Sleep		Tue Aug 10 2010 3:09 PM			28:21
Hold		Tue Aug 10 2010 3:37 PM			3:39+

Serial Number 36442

Aug 10, 2010

3:42 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
+60.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
63.1	107.4	83.6	80.3

Pressure (in-Hg)

27.79	28.20	27.91	28.00
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0251

Station Location: T-4 (Troy Info Center)

Sample ID #:

Field Technician: QAFilter Lot #: 19828-02Pump Type/Model: SKC AirChek 2000Sample Type: TEMPump Number: 36446Sample Parent ID #: —Sampling Period: 28

PUMP SETUP DAY

Date: 8-4-10Timer Beginning Date/Time: 8-3-10/12:00 AMTime: 7:48 PMBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): yesBios Calibration Within 10 mL (Yes / No): yes

PUMP RETRIEVAL DAY

Date: 8-10-10Timer Ending Date/Time: 8-10-10/12:00 AMTime: 1:56 PMEnding Flow Rate (L/min): 2Total Sample Volume (L): 0.40Total Sample Time (min): 7200Atmospheric Pressure (INS): 27.50Temperature inside station unit (°F): 76.8 pump / 77 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: [Signature]DATE: 8-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA &
ADDITIONAL DAILY CHECK RECORDS

TA-0251

Station Location: T-4 (Troy Info Center)

Sample ID #:

Field Technician: JDFilter Lot #: 19828-02Pump Type/Model: SKC AirChek 2000Pump Number: 36446

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-6-10 (JD)Time: 1:46 PM ()PUMP FAULT (Yes / No): NOFlow Rate (L/min): 2Cumulative Sample Volume (L): 4532Cumulative Sample Time (min): 2266Atmospheric Pressure (INS): 27.49Temperature inside station unit (°F): 94.8 pump / 84 BoxBattery voltage reading (volts): 12.77

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-9-10 (JD)Time: 2:11 PM ()PUMP FAULT (Yes / No): NOFlow Rate (L/min): 2Cumulative Sample Volume (L): 0 FLOCumulative Sample Time (min): 6611Atmospheric Pressure (INS): 27.52Temperature inside station unit (°F): 95.5 pump / 84 BoxBattery voltage reading (volts): 12.67

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36446****Date Printed: Tuesday, August 10, 2010 3:44 PM****Min Temp 63.2F****Max Temp 106.1F****TWA Temp 84.0F****Min Pressure 27.4 In-Hg****Max Pressure 27.8 In-Hg****TWA Pressure 27.5 In-Hg****Flow Correction Approximately +70.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Aug 4 2010 7:48 PM			5:02
Sleep		Wed Aug 4 2010 7:53 PM			4:06:32
Prog (Run)	2000	Thu Aug 5 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Aug 10 2010 12:00 AM			4:59
Sleep		Tue Aug 10 2010 12:05 AM			13:51:36
Hold		Tue Aug 10 2010 1:56 PM			5:16
Sleep		Tue Aug 10 2010 2:01 PM			1:37:29
Hold		Tue Aug 10 2010 3:39 PM			4:38+

Serial Number 36446

Aug 10, 2010

3:43 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
+70.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
63.2	106.1	84.0	80.4

Pressure (in-Hg)

27.35	27.78	27.49	27.61
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S/

TA-0252

Station Location: T-4QC (Troy Info Center)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-02

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36444

Sample Parent ID #

Sampling Period: 28

TA-0251

PUMP SETUP DAY

Date: 8-4-10Timer Beginning Date/Time: 8-5-10/12:00 AMTime: 7:49 PMBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): YESBios Calibration Within 10 mL (Yes / No): YES

PUMP RETRIEVAL DAY

Date: 8-10-10Timer Ending Date/Time: 8-10-10/12:00 AMTime: 2:02 PMEnding Flow Rate (L/min): 2Total Sample Volume (L): 0 FLTotal Sample Time (min): 7200Atmospheric Pressure (INS): 27.63Temperature inside station unit (°F): 79.3 pump / 77 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: JDDATE: 8-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-0252

Station Location: T-4QC (Troy Info Center)

Sample ID #:

Field Technician: JDFilter Lot #: 19828-02Pump Type/Model: SKC AirChek 2000Pump Number: 36444

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-6-10 (JD)Time: 1:50 PM ()PUMP FAULT (Yes / No): NoFlow Rate (L/min): 2Cumulative Sample Volume (L): 4540Cumulative Sample Time (min): 2270Atmospheric Pressure (INS): 27.65Temperature inside station unit (°F): 97.7 Pump / 84 BoxBattery voltage reading (volts): 12.77

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-9-10 (JD)Time: 2:15 PM ()PUMP FAULT (Yes / No): NoFlow Rate (L/min): 2Cumulative Sample Volume (L): 0 FLOCumulative Sample Time (min): 6615Atmospheric Pressure (INS): 27.67Temperature inside station unit (°F): 98.3 Pump / 84 BoxBattery voltage reading (volts): 12.68

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

SKC Pump History**SN 36444****Date Printed: Tuesday, August 10, 2010 3:47 PM****Min Temp 64.8F****Max Temp 108.4F****TWA Temp 86.1F****Min Pressure 27.4 In-Hg****Max Pressure 28.0 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately +90.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Aug 4 2010 7:50 PM			5:01
Sleep		Wed Aug 4 2010 7:55 PM			4:04:49
Prog (Run)	2000	Thu Aug 5 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Aug 10 2010 12:00 AM			4:59
Sleep		Tue Aug 10 2010 12:05 AM			13:57:08
Hold		Tue Aug 10 2010 2:02 PM			5:17
Sleep		Tue Aug 10 2010 2:07 PM			1:34:32
Hold		Tue Aug 10 2010 3:41 PM			5:02+

Serial Number 36444

Aug 10, 2010
3:46 PM

Pump Real-Time Monitor

Pump Status

Flow

Volume

Run Time

Total Time

Battery

Flow Calibrate

Approx Correction
+90.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
64.8	108.4	86.1	83.4

Pressure (in-Hg)

27.45	27.97	27.62	27.76
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius

☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec)

Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0253

Station Location: T-5 (State Shop)
Field Technician: [Signature]
Pump Type/Model: SKC AirChek 2000
Pump Number: 36427
Sampling Period: 28

Sample ID #: _____
Filter Lot #: 19828-02
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 8-4-10
Time: 7:49 PM

Timer Beginning Date/Time: 8-5-10/12:00 AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-10-10
Time: 2:10 PM

Timer Ending Date/Time: 8-10-10/12:00 AM
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0.5 L
Total Sample Time (min): 72.00
Atmospheric Pressure (INS): 27.84
Temperature inside station unit (°F): 79.1 Pump/74 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: [Signature]DATE: 8-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0253

Station Location: T-5 (State Shop)
Field Technician: JS
Pump Type/Model: SKC AirChek 2000
Pump Number: 36427

Sample ID #: _____
Filter Lot #: 19828-02

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 8-6-10 (JS)
Time: 2:19 PM ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 4598
Cumulative Sample Time (min): 2299
Atmospheric Pressure (INS): 27.82
Temperature inside station unit (°F): 93.7 pump / 82 box
Battery voltage reading (volts): 12.75

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 8-9-10 (JS)
Time: 1:27 PM ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 8920
Cumulative Sample Time (min): 6567
Atmospheric Pressure (INS): 27.83
Temperature inside station unit (°F): 85.6 pump / 74 box
Battery voltage reading (volts): 12.65

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ () JS
Time: _____ () JS

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ () JS
Time: _____ () JS

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ () JS
Time: _____ () JS

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36427****Date Printed: Tuesday, August 10, 2010 3:57 PM****Min Temp 64.5F****Max Temp 109.4F****TWA Temp 84.0F****Min Pressure 27.7 In-Hg****Max Pressure 28.1 In-Hg****TWA Pressure 27.8 In-Hg****Flow Correction Approximately +80.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Aug 4 2010 7:50 PM			5:04
Sleep		Wed Aug 4 2010 7:55 PM			4:04:07
Prog (Run)	2000	Thu Aug 5 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Tue Aug 10 2010 12:00 AM			4:59
Sleep		Tue Aug 10 2010 12:05 AM			14:04:34
Hold		Tue Aug 10 2010 2:09 PM			5:15
Sleep		Tue Aug 10 2010 2:14 PM			1:35:07
Hold		Tue Aug 10 2010 3:49 PM			4:57
Sleep		Tue Aug 10 2010 3:54 PM			1:02
Hold		Tue Aug 10 2010 3:55 PM			1:04+

Serial Number 36427

Aug 10, 2010

3:57 PM

Pump Real-Time Monitor

Pump
Status

Hold

Flow

2000

Volume

14400.13

Run Time

5d 0:00:04

Total Time

136d 1:50:14

Battery



Flow Calibrate

Approx Correction
+80.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min

64.5

Max

109.4

TWA

84.0

Ambient

81.7

Pressure (in-Hg)

27.69

28.08

27.82

27.90

Units Selection



Fahrenheit



Celsius



in-Hg



millibar



mm-Hg

Fault Options

Time to Fault (sec)

15

Number of Tries

10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0254

Station Location: T-6 (Water Tower)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36422
Sampling Period: 28

Sample ID #: _____
Filter Lot #: 19828-02
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 8-4-10
Time: 7:50 PM

Timer Beginning Date/Time: 8-5-10/12:00 AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-10-10
Time: 2:17 PM

Timer Ending Date/Time: 8-10-10/12:00 AM
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FL0
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.58
Temperature inside station unit (°F): 77.2 Pump / 76 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: JDDATE: 8-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0254

Station Location: T-6 (Water Tower)
Field Technician: JP
Pump Type/Model: SKC AirChek 2000
Pump Number: 36422

Sample ID #:
Filter Lot #: 19828-02

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 8-6-10 (JP)
Time: 2:14pm ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 4588
Cumulative Sample Time (min): 2294
Atmospheric Pressure (INS): 27.57
Temperature inside station unit (°F): 91.6 pump / 82 Box
Battery voltage reading (volts): 12.75

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 8-9-10 (JP)
Time: 1:33pm ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 0 FLO
Cumulative Sample Time (min): 6573
Atmospheric Pressure (INS): 27.60
Temperature inside station unit (°F): 90.3 pump / 79 Box
Battery voltage reading (volts): 12.66

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ()
Time: ()

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ()
Time: ()

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ()
Time: ()

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History**SN 36422****Date Printed: Tuesday, August 10, 2010 3:55 PM****Min Temp 61.4F****Max Temp 105.7F****TWA Temp 82.2F****Min Pressure 27.4 In-Hg****Max Pressure 27.8 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately +30.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Aug 4 2010 7:51 PM			5:01
Sleep		Wed Aug 4 2010 7:56 PM			4:03:21
Prog (Run)	2000	Thu Aug 5 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Aug 10 2010 12:00 AM			4:59
Sleep		Tue Aug 10 2010 12:05 AM			14:12:03
Hold		Tue Aug 10 2010 2:17 PM			5:14
Sleep		Tue Aug 10 2010 2:22 PM			1:27:49
Hold		Tue Aug 10 2010 3:50 PM			4:53+

Serial Number 36422

Aug 10, 2010

3:54 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
+30.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
61.4	105.7	82.2	81.2

Pressure (in-Hg)

27.38	27.85	27.56	27.82
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0255

Station Location: T-7 (Jay's Rental)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36428
Sampling Period: 28

Sample ID #: _____
Filter Lot #: 19828-02
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 8-4-10
Time: 7:51pm

Timer Beginning Date/Time: 8-5-10/12:00am
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-10-10
Time: 2:25pm

Timer Ending Date/Time: 8-10-10/12:00am
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.45
Temperature inside station unit (°F): 82.9 pump/75BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: JDDATE: 8-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0255

Station Location: T-7 (Jay's Rental)

Sample ID #:

Field Technician: JP

Filter Lot #: 19828-02

Pump Type/Model: SKC AirChek 2000

Pump Number: 36428

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-6-10 (JP)

Time: 2:08 PM ()

PUMP FAULT (Yes / No): No

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 4575

Cumulative Sample Time (min): 2287

Atmospheric Pressure (INS): 27.35

Temperature inside station unit (°F): 92.1 pump / 83 Box

Battery voltage reading (volts): 12.67

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-9-10 (JP)

Time: 1:39 PM ()

PUMP FAULT (Yes / No): No

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 0 FLO

Cumulative Sample Time (min): 6579

Atmospheric Pressure (INS): 27.35

Temperature inside station unit (°F): 87.5 pump / 78 Box

Battery voltage reading (volts): 12.47

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36428****Date Printed: Tuesday, August 10, 2010 3:51 PM****Min Temp 71.0F****Max Temp 108.1F****TWA Temp 88.2F****Min Pressure 27.2 In-Hg****Max Pressure 27.8 In-Hg****TWA Pressure 27.4 In-Hg****Flow Correction Approximately +30.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Aug 4 2010 7:52 PM			5:02
Sleep		Wed Aug 4 2010 7:57 PM			4:02:31
Prog (Run)	2000	Thu Aug 5 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Aug 10 2010 12:00 AM			4:59
Sleep		Tue Aug 10 2010 12:05 AM			14:19:46
Hold		Tue Aug 10 2010 2:24 PM			5:12
Sleep		Tue Aug 10 2010 2:29 PM			1:16:39
Hold		Tue Aug 10 2010 3:46 PM			4:22+

Serial Number 36428

Aug 10, 2010

3:51 PM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 126d 2:53:26

Battery  - +

Flow Calibrate

Approx Correction
+30.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
71.0	108.1	88.2	79.7

Pressure (in-Hg)

27.25	27.82	27.38	27.79
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0265

Station Location: Field Blank
Field Technician: JA
Pump Type/Model: —
Pump Number: —
Sampling Period: 29

Sample ID #: —
Filter Lot #: 19828-02
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 8-13-10
Time: 1:18 PM

Timer Beginning Date/Time: 8-13-10 / 12:00 AM
Beginning Flow Rate (L/min): —
Pump Programmed (Yes / No): —
Bios Calibration Within 10 mL (Yes / No): —

PUMP RETRIEVAL DAY

Date: —
Time: —

Timer Ending Date/Time: —
Ending Flow Rate (L/min): —
Total Sample Volume (L): —
Total Sample Time (min): —
Atmospheric Pressure (INS): —
Temperature inside station unit (°F): —

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: Jon JordanDATE: 8-13-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET

TA-0257

Station Location: T-1 (Tony's Rental)

Sample ID #: _____

Field Technician: JDFilter Lot #: 19828-02Pump Type/Model: SKC AirChek 2000Sample Type: TEMPump Number: 36423

Sample Parent ID #: _____

Sampling Period: 29

PUMP SETUP DAY

Date: 8-13-10Timer Beginning Date/Time: 8-15-10/12:00AMTime: 1:10 PMBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): YesBios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-20-10Timer Ending Date/Time: 8-20-10/12:00AMTime: 12:12 PMEnding Flow Rate (L/min): 2Total Sample Volume (L): 0 FLOTotal Sample Time (min): 7200Atmospheric Pressure (INS): 27.62Temperature inside station unit (°F): 69.2 Pump/64/box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: Judy JordanDATE: 8-20-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0257

Station Location: T-1 (Tony's Rental)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36423

Sample ID #: _____
Filter Lot #: 19828-02

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 8-16-10 (JD)
Time: 11:41am ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 4282
Cumulative Sample Time (min): 2140
Atmospheric pressure (mm Hg): 27.84
Temperature inside station unit (F): 69.4 pump/64Box
Battery voltage reading (volts): 12.80

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 8-19-10 (JD)
Time: 1:31pm ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 0FL0
Cumulative Sample Time (min): 6571
Atmospheric Pressure (INS): 27.61
Temperature inside station unit (F): 79.9 pump/73Box
Battery voltage reading (volts): 12.68

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36423****Date Printed: Friday, August 20, 2010 12:53 PM****Min Temp 55.5F****Max Temp 91.2F****TWA Temp 73.8F****Min Pressure 27.5 In-Hg****Max Pressure 28.1 In-Hg****TWA Pressure 27.7 In-Hg****No Flow Correction**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Aug 13 2010 1:27 PM			5:34
Sleep		Fri Aug 13 2010 1:33 PM			1d 10:26:37
Prog (Run)	2000	Sun Aug 15 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Aug 20 2010 12:00 AM			4:59
Sleep		Fri Aug 20 2010 12:05 AM			12:07:14
Hold		Fri Aug 20 2010 12:12 PM			5:24
Sleep		Fri Aug 20 2010 12:17 PM			33:20
Hold		Fri Aug 20 2010 12:50 PM			2:01+

Serial Number 36423

Aug 20, 2010

12:53 PM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 63d 21:21:26

Battery  - +

Flow Calibrate

Approx Correction
0.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
55.5	91.2	73.8	82.4

Pressure (in-Hg)

27.55	28.11	27.74	27.86
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0258

Station Location: T-2 (Fire Station)

Sample ID #: _____

Field Technician: JAFilter Lot #: 19828-02Pump Type/Model: SKC AirChek 2000Sample Type: TEMPump Number: 36424Sample Parent ID #: —Sampling Period: 29

PUMP SETUP DAY

Date: 8-13-10Timer Beginning Date/Time: 8-13-10/12:00AMTime: 1:11 PMBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): YesBios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-20-10Timer Ending Date/Time: 8-20-10/12:00AMTime: 12:03 PMEnding Flow Rate (L/min): 2Total Sample Volume (L): 0.5 LTotal Sample Time (min): 7200Atmospheric Pressure (INS): 28.05Temperature inside station unit (°F): 81.4 Pump / 78 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: John JordanDATE: 8-20-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0258

Station Location: T-2 (Fire Station)
Field Technician: JS
Pump Type/Model: SKC AirChek 2000
Pump Number: 36424

Sample ID #: _____
Filter Lot #: 19828-02

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-16-10 (JS) Flow Rate (L/min): 2
Time: 11:33 AM () Cumulative Sample Volume (L): 4267
Cumulative Sample Time (min): 2133
Atmospheric Pressure (INS): 28.29
Temperature inside station unit (°F): 88.6 Pump / 78 Box
Battery voltage reading (volts): 12.73

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-19-10 (JS) Flow Rate (L/min): 2
Time: 1:43 PM () Cumulative Sample Volume (L): 0540
Cumulative Sample Time (min): 6582
Atmospheric Pressure (INS): 28.05
Temperature inside station unit (°F): 103.7 Pump / 96 Box
Battery voltage reading (volts): 12.50

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () JS Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () JS Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) JS PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36424****Date Printed: Friday, August 20, 2010 12:57 PM****Min Temp 58.4F****Max Temp 112.4F****TWA Temp 88.5F****Min Pressure 27.8 In-Hg****Max Pressure 28.5 In-Hg****TWA Pressure 28.1 In-Hg****Flow Correction Approximately +20.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Aug 13 2010 1:35 PM			6:01
Sleep		Fri Aug 13 2010 1:41 PM			1d 10:18:58
Prog (Run)	2000	Sun Aug 15 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Aug 20 2010 12:00 AM			4:59
Sleep		Fri Aug 20 2010 12:05 AM			11:58:26
Hold		Fri Aug 20 2010 12:03 PM			5:16
Sleep		Fri Aug 20 2010 12:08 PM			48:22
Hold		Fri Aug 20 2010 12:57 PM+			

Serial Number 36424

Aug 20, 2010

1:00 PM

Pump Real-Time Monitor

Pump
Status

Hold

Flow

2000

Volume

14400.13

Run Time

5d 0:00:04

Total Time

125d 14:14:15

Battery



Flow Calibrate

Approx Correction
+20.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min

58.4

Max

112.4

TWA

88.5

Ambient

89.9

Pressure (in-Hg)

27.83

28.51

28.11

28.30

Units Selection



Fahrenheit



Celsius



in-Hg



millibar



mm-Hg

Fault Options

Time to Fault (sec)

15

Number of Tries

10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0259

Station Location: T-3 (Water Treatment Station) Sample ID #: _____
Field Technician: [Signature] Filter Lot #: 19828-02
Pump Type/Model: SKC AirChek 2000 Sample Type: TEM
Pump Number: 36442 Sample Parent ID #: —
Sampling Period: 29

PUMP SETUP DAY

Date: 8-13-10 Timer Beginning Date/Time: 8-15-10/12:00 AM
Time: 1:12 PM Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-20-10 Timer Ending Date/Time: 8-20-10/12:00 AM
Time: 12:25 PM Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FL0
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.84
Temperature inside station unit (°F): 74.2 Pump/70 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: [Signature]DATE: 8-20-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0259

Station Location: T-3 (Water Treatment Station) Sample ID #:
Field Technician: JD Filter Lot #: 19828-02
Pump Type/Model: SKC AirChek 2000
Pump Number: 36442

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-16-10 (JD) Flow Rate (L/min): 2
Time: 11:50 am () Cumulative Sample Volume (L): 4300
Cumulative Sample Time (min): 2150
Atmospheric Pressure (INS): 28.14
Temperature inside station unit (°F): 80.3 pump / 72 Box
Battery voltage reading (volts): 12.74

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-19-10 (JD) Flow Rate (L/min): 2
Time: 1:23 pm () Cumulative Sample Volume (L): 0 FLO
Cumulative Sample Time (min): 6563
Atmospheric Pressure (INS): 27.93
Temperature inside station unit (°F): 93.3 pump / 84 Box
Battery voltage reading (volts): 12.64

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History**SN 36442****Date Printed: Friday, August 20, 2010 12:55 PM****Min Temp 58.6F****Max Temp 107.4F****TWA Temp 81.7F****Min Pressure 27.7 In-Hg****Max Pressure 28.3 In-Hg****TWA Pressure 28.0 In-Hg****Flow Correction Approximately +20.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Aug 13 2010 1:29 PM			5:51
Sleep		Fri Aug 13 2010 1:35 PM			1d 10:24:27
Prog (Run)	2000	Sun Aug 15 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Aug 20 2010 12:00 AM			4:59
Sleep		Fri Aug 20 2010 12:05 AM			12:20:44
Hold		Fri Aug 20 2010 12:25 PM			5:14
Sleep		Fri Aug 20 2010 12:30 PM			20:44
Hold		Fri Aug 20 2010 12:51 PM			3:17+

Serial Number 36442

Aug 20, 2010

12:56 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
+20.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
58.6	107.4	81.7	81.2

Pressure (in-Hg)

27.71	28.29	27.99	28.00
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0260

Station Location: T-4 (Troy Info Center)

Sample ID #:

Field Technician: GHFilter Lot #: 19828-02Pump Type/Model: SKC AirChek 2000Sample Type: TEMPump Number: 36446Sample Parent ID #: 2Sampling Period: 29

PUMP SETUP DAY

Date: 8-13-10Time: 1:13 PMTimer Beginning Date/Time: 8-15-10/12:00AMBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): YesBios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-20-10Time: 12:40 PMTimer Ending Date/Time: 8-20-10/12:00AMEnding Flow Rate (L/min): 2Total Sample Volume (L): 0 FLOTotal Sample Time (min): 7200Atmospheric Pressure (INS): 27.45Temperature inside station unit (°F): 75.8 pump/75.8x

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: [Signature]DATE: 8-20-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA &
ADDITIONAL DAILY CHECK RECORDS

TA-0260

Station Location: T-4 (Troy Info Center)
Field Technician: gg
Pump Type/Model: SKC AirChek 2000
Pump Number: 36446

Sample ID #: _____
Filter Lot #: 19828-02

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-16-10 (gg) Flow Rate (L/min): 2
Time: 12:01 PM () Cumulative Sample Volume (L): 4322
Cumulative Sample Time (min): 2160
Atmospheric Pressure (INS): 27.73
Temperature inside station unit (F): 89.6 pump / 78 Box
Battery voltage reading (volts): 12.77

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-19-10 (gg) Flow Rate (L/min): 2
Time: 12:58 PM () Cumulative Sample Volume (L): 0640
Cumulative Sample Time (min): 6538
Atmospheric Pressure (INS): 27.50
Temperature inside station unit (F): 95.4 pump / 84 Box
Battery voltage reading (volts): 12.63

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36446****Date Printed: Friday, August 20, 2010 1:01 PM****Min Temp 59.3F****Max Temp 107.4F****TWA Temp 83.2F****Min Pressure 27.3 In-Hg****Max Pressure 27.9 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately +10.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Aug 13 2010 1:29 PM			5:40
Sleep		Fri Aug 13 2010 1:35 PM			1d 10:24:52
Prog (Run)	2000	Sun Aug 15 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Fri Aug 20 2010 12:00 AM			4:59
Sleep		Fri Aug 20 2010 12:05 AM			12:35:06
Hold		Fri Aug 20 2010 12:40 PM			5:18
Sleep		Fri Aug 20 2010 12:45 PM			12:35
Hold		Fri Aug 20 2010 12:57 PM			3:01+

Serial Number 36446

Aug 20, 2010

1:00 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
+10.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
59.3	107.4	83.2	79.7

Pressure (in-Hg)

27.28	27.93	27.57	27.57
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0261

Station Location: T-4QC (Troy Info Center)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-02

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36444

Sample Parent ID #:

Sampling Period: 29

TA-0260

PUMP SETUP DAY

Date: 8-13-10

Time: 7:14pm

Timer Beginning Date/Time: 8-15-10/12:00am

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-20-10

Time: 12:44

Timer Ending Date/Time: 8-20-10/12:00am

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 6FL0

Total Sample Time (min): 7200

Atmospheric Pressure (INS): 27.58

Temperature inside station unit (°F): 78.5 pump / 75 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE:



DATE:

8-20-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0261

Station Location: T-4QC (Troy Info Center)

Sample ID #:

Field Technician: JAFilter Lot #: 19828-02Pump Type/Model: SKC AirChek 2000Pump Number: 36444

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-16-10 (JA)Time: 12:05 PM ()PUMP FAULT (Yes / No): NOFlow Rate (L/min): 2Cumulative Sample Volume (L): 4330Cumulative Sample Time (min): 2165Atmospheric Pressure (INS): 27.86Temperature inside station unit (°F): 91.8 Pump / 78 BoxBattery voltage reading (volts): 12.76

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-19-10 (JA)Time: 1:03 PM ()PUMP FAULT (Yes / No): NOFlow Rate (L/min): 2Cumulative Sample Volume (L): 0540Cumulative Sample Time (min): 6542Atmospheric Pressure (INS): 27.63Temperature inside station unit (°F): 97.8 Pump / 84 BoxBattery voltage reading (volts): 12.66

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36444****Date Printed: Friday, August 20, 2010 12:59 PM****Min Temp 60.9F****Max Temp 109.0F****TWA Temp 85.3F****Min Pressure 27.4 In-Hg****Max Pressure 28.0 In-Hg****TWA Pressure 27.7 In-Hg****Flow Correction Approximately +40.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Aug 13 2010 1:33 PM			5:41
Sleep		Fri Aug 13 2010 1:38 PM			1d 10:21:01
Prog (Run)	2000	Sun Aug 15 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Aug 20 2010 12:00 AM			4:59
Sleep		Fri Aug 20 2010 12:05 AM			12:39:18
Hold		Fri Aug 20 2010 12:44 PM			5:15
Sleep		Fri Aug 20 2010 12:49 PM			9:16
Hold		Fri Aug 20 2010 12:58 PM			0:10+

Serial Number 36444

Aug 20, 2010

1:01 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
+40.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
60.9	109.0	85.3	81.3

Pressure (in-Hg)

27.45	28.04	27.70	27.69
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0262

Station Location: T-5 (State Shop)
Field Technician: [Signature]
Pump Type/Model: SKC AirChek 2000
Pump Number: 36427
Sampling Period: 29

Sample ID #: _____
Filter Lot #: 19828-02
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 8-13-10
Time: 1:15 PM

Timer Beginning Date/Time: 8-15-10/12:00AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-20-10
Time: 11:48 AM

Timer Ending Date/Time: 8-20-10/12:00AM
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.79
Temperature inside station unit (°F): 22.0 Pump/61Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: [Signature]DATE: 8-20-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0262

Station Location: T-5 (State Shop)
Field Technician: JA
Pump Type/Model: SKC AirChek 2000
Pump Number: 36427

Sample ID #: _____
Filter Lot #: 19828-02

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 8-16-10 (JA)
Time: 11:03 AM ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 4206
Cumulative Sample Time (min): 2103
Atmospheric Pressure (INS): 27.95
Temperature inside station unit (°F): 68.1 pump / 60 box
Battery voltage reading (volts): 12.76

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 8-19-10 (JA)
Time: 1:57 PM ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 0540
Cumulative Sample Time (min): 6596
Atmospheric Pressure (INS): 27.80
Temperature inside station unit (°F): 90.8 pump / 80 box
Battery voltage reading (volts): 12.65

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36427****Date Printed: Friday, August 20, 2010 1:08 PM****Min Temp 60.6F****Max Temp 109.4F****TWA Temp 82.2F****Min Pressure 27.7 In-Hg****Max Pressure 28.2 In-Hg****TWA Pressure 27.9 In-Hg****Flow Correction Approximately +20.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Aug 13 2010 1:36 PM			5:04
Sleep		Fri Aug 13 2010 1:41 PM			1d 10:18:01
Prog (Run)	2000	Sun Aug 15 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Aug 20 2010 12:00 AM			4:59
Sleep		Fri Aug 20 2010 12:05 AM			11:42:35
Hold		Fri Aug 20 2010 11:47 AM			5:24
Sleep		Fri Aug 20 2010 11:53 AM			1:11:17
Hold		Fri Aug 20 2010 1:04 PM			3:43+

Serial Number 36427

Aug 20, 2010

1:08 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery

Flow Calibrate

Approx Correction
+20.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
60.6	109.4	82.2	87.5

Pressure (in-Hg)

27.69	28.23	27.90	27.94
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0263

Station Location: T-6 (Water Tower)

Sample ID #:

Field Technician: JDFilter Lot #: 19828-02Pump Type/Model: SKC AirChek 2000Sample Type: TEMPump Number: 36422Sample Parent ID #: —Sampling Period: 29

PUMP SETUP DAY

Date: 8-13-10Time: 1:16 PMTimer Beginning Date/Time: 8-15-10/12:00 AMBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): YesBios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-20-10Time: 11:37 AMTimer Ending Date/Time: 8-20-10/12:00 AMEnding Flow Rate (L/min): 2Total Sample Volume (L): 0FL0Total Sample Time (min): 7200Atmospheric Pressure (INS): 27.52Temperature inside station unit (°F): 74.9 pump/68Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: [Signature]DATE: 8-20-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0263

Station Location: T-6 (Water Tower)

Sample ID #:

Field Technician: JP

Filter Lot #: 19828-02

Pump Type/Model: SKC AirChek 2000

Pump Number: 36422

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-16-10 (JP)

Time: 11:09am ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 4218

Cumulative Sample Time (min): 2109

Atmospheric Pressure (INS): 27.75

Temperature inside station unit (°F): 78.0 Pump/69Box

Battery voltage reading (volts): 12.79

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-19-10 (JP)

Time: 2:02pm ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 0 FLO

Cumulative Sample Time (min): 6602

Atmospheric Pressure (INS): 27.56

Temperature inside station unit (°F): 91.6 Pump/82Box

Battery voltage reading (volts): 12.65

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36422****Date Printed: Friday, August 20, 2010 1:05 PM****Min Temp 58.8F****Max Temp 104.4F****TWA Temp 81.5F****Min Pressure 27.4 In-Hg****Max Pressure 27.9 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately -10.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Aug 13 2010 1:35 PM			5:57
Sleep		Fri Aug 13 2010 1:41 PM			1d 10:18:25
Prog (Run)	2000	Sun Aug 15 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Aug 20 2010 12:00 AM			4:59
Sleep		Fri Aug 20 2010 12:05 AM			11:32:22
Hold		Fri Aug 20 2010 11:37 AM			5:17
Sleep		Fri Aug 20 2010 11:42 AM			1:19:54
Hold		Fri Aug 20 2010 1:02 PM			2:26+

Serial Number 36422

Aug 20, 2010

1:05 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
-10.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
58.8	104.4	81.5	88.3

Pressure (in-Hg)

27.38	27.92	27.64	27.87
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0264

Station Location: T-7 (Jay's Rental)

Sample ID #:

Field Technician: JP

Filter Lot #: 19828-02

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36428

Sample Parent ID #: —

Sampling Period: 29

PUMP SETUP DAY

Date: 8-13-10Timer Beginning Date/Time: 8-13-10/12:00amTime: 1:17pmBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): YesBios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-20-10Timer Ending Date/Time: 8-20-10/12:00amTime: 11:25amEnding Flow Rate (L/min): 2Total Sample Volume (L): 0.5 LTotal Sample Time (min): 7200Atmospheric Pressure (INS): 27.45Temperature inside station unit (°F): 78.8 pump/69.00x

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: JPDATE: 8-20-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0264

Station Location: T-7 (Jay's Rental)

Sample ID #:

Field Technician: JA

Filter Lot #: 19828-02

Pump Type/Model: SKC AirChek 2000

Pump Number: 36428

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-16-10 (JA)

Time: 11:16 AM ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 4233

Cumulative Sample Time (min): 2116

Atmospheric Pressure (INS): 27.52

Temperature inside station unit (°F): 76.5 Pump/68 Box

Battery voltage reading (volts): 12.75

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-19-10 (JA)

Time: 12:47 PM ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 0 FLO

Cumulative Sample Time (min): 6526

Atmospheric Pressure (INS): 27.33

Temperature inside station unit (°F): 88.8 Pump/80 Box

Battery voltage reading (volts): 12.64

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36428****Date Printed: Friday, August 20, 2010 1:03 PM****Min Temp 66.4F****Max Temp 106.1F****TWA Temp 85.9F****Min Pressure 27.2 In-Hg****Max Pressure 27.9 In-Hg****TWA Pressure 27.5 In-Hg****Flow Correction Approximately -50.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Aug 13 2010 1:34 PM			5:50
Sleep		Fri Aug 13 2010 1:40 PM			1d 10:19:35
Prog (Run)	2000	Sun Aug 15 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Aug 20 2010 12:00 AM			4:59
Sleep		Fri Aug 20 2010 12:05 AM			11:20:20
Hold		Fri Aug 20 2010 11:25 AM			5:22
Sleep		Fri Aug 20 2010 11:30 AM			1:29:59
Hold		Fri Aug 20 2010 1:00 PM			2:18+

Serial Number 36428

Aug 20, 2010

1:04 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
-50.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
<input type="text" value="66.4"/>	<input type="text" value="106.1"/>	<input type="text" value="85.9"/>	<input type="text" value="90.4"/>

Pressure (in-Hg)

<input type="text" value="27.25"/>	<input type="text" value="27.90"/>	<input type="text" value="27.46"/>	<input type="text" value="27.91"/>
------------------------------------	------------------------------------	------------------------------------	------------------------------------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0274

Station Location: Field Blank
Field Technician: GP
Pump Type/Model: —
Pump Number: —
Sampling Period 30

Sample ID #: —
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 8-24-10
Time: 2:40 pm

Timer Beginning Date/Time: 8-25-10/12:00AM
Beginning Flow Rate (L/min): —
Pump Programmed (Yes / No): —
Bios Calibration Within 10 mL (Yes / No): —

PUMP RETRIEVAL DAY

Date: —
Time: —

Timer Ending Date/Time: —
Ending Flow Rate (L/min): —
Total Sample Volume (L): —
Total Sample Time (min): —
Atmospheric Pressure (INS): —
Temperature inside station unit (°F): —

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE:

DATE:

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0266

Station Location: T-1 (Tony's Rental)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36423
Sampling Period: 30

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: _____

PUMP SETUP DAY

Date: 8-24-10 Timer Beginning Date/Time: 8-25-10/12:00AM
Time: 2:41 PM Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-30-10 Timer Ending Date/Time: 8-30-10/12:00AM
Time: 11:15 AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.69
Temperature inside station unit (°F): 55.6 Pump/51 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

very windy 25th, 26th and 29th lots of smoke
in air on the night of 26th JD

SIGNATURE: JDDATE: 8-30-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0266

Station Location: T-1 (Tony's Rental)
Field Technician: 99
Pump Type/Model: SKC AirChek 2000
Pump Number: 36423

Sample ID #: _____
Filter Lot #: 19828-0203

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): NO
Date: 8-25-10 (99) Flow Rate (L/min): 2
Time: 5:52pm () Cumulative Sample Volume (L): 2144
Cumulative Sample Time (min): 1072
Atmospheric pressure (mm Hg): 27.77
Temperature inside station unit (°F): 88.3 pump / 80 Box
Battery voltage reading (volts): 12.91

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): NO
Date: 8-27-10 (99) Flow Rate (L/min): 2
Time: 11:04am () Cumulative Sample Volume (L): 7088
Cumulative Sample Time (min): 3543
Atmospheric Pressure (INS) 27.73
Temperature inside station unit (°F): 68.2 pump / 64 Box
Battery voltage reading (volts): 12.81

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36423****Date Printed: Monday, August 30, 2010 11:41 AM****Min Temp 51.6F****Max Temp 89.3F****TWA Temp 66.8F****Min Pressure 27.5 In-Hg****Max Pressure 28.1 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately -40.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Tue Aug 24 2010 1:14 PM			5:25
Sleep		Tue Aug 24 2010 1:19 PM			10:40:12
Prog (Run)	2000	Wed Aug 25 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Aug 30 2010 12:00 AM			4:59
Sleep		Mon Aug 30 2010 12:05 AM			11:10:07
Hold		Mon Aug 30 2010 11:15 AM			5:17
Sleep		Mon Aug 30 2010 11:20 AM			17:43
Hold		Mon Aug 30 2010 11:38 AM			2:52+

Serial Number 36423

Aug 30, 2010

11:43 AM

Pump Real-Time Monitor

Pump Status **Hold**Flow **2000**Volume **14400.13**Run Time **5d 0:00:04**Total Time **68d 21:46:23**Battery 
- +

Flow Calibrate

Approx Correction
-40.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
51.6	89.3	66.8	55.7

Pressure (in-Hg)

27.47	28.11	27.62	27.71
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) **15**Number of Tries **10**

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0267

Station Location: T-2 (Fire Station)
Field Technician: [Signature]
Pump Type/Model: SKC AirChek 2000
Pump Number: 36424
Sampling Period: 30

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: _____

PUMP SETUP DAY

Date: 8-24-10
Time: 2:42pm

Timer Beginning Date/Time: 8-25-10/12:00am
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-30-10
Time: 11:10am

Timer Ending Date/Time: 8-30-10/12:00am
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FLD
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 28.02
Temperature inside station unit (°F): 67.3 ame/64Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Very windy on the 25th, 26th and 29th
lots of smoke in air night of the 26th [Signature]

SIGNATURE: [Signature]

DATE: 8-30-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0267

Station Location: T-2 (Fire Station)
Field Technician: JP
Pump Type/Model: SKC AirChek 2000
Pump Number: 36424
Sampling Period: 30

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: _____

PUMP SETUP DAY

Date: 8-24-10
Time: 2:42pm

Timer Beginning Date/Time: 8-25-10/12:00am
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-30-10
Time: 11:10am

Timer Ending Date/Time: 8-30-10/12:00am
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FLD
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 28.02
Temperature inside station unit (°F): 67.3 ampe/64BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Very windy on the 25th, 26th and 29th
lots of smoke in air night of the 26th

SIGNATURE: JP

DATE: 8-30-10

SKC Pump History**SN 36424****Date Printed: Monday, August 30, 2010 11:38 AM****Min Temp 59.7F****Max Temp 113.1F****TWA Temp 82.5F****Min Pressure 27.8 In-Hg****Max Pressure 28.4 In-Hg****TWA Pressure 28.0 In-Hg****Flow Correction Approximately +40.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Tue Aug 24 2010 1:12 PM			6:03
Sleep		Tue Aug 24 2010 1:18 PM			10:41:45
Prog (Run)	2000	Wed Aug 25 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Aug 30 2010 12:00 AM			4:59
Sleep		Mon Aug 30 2010 12:05 AM			11:04:57
Hold		Mon Aug 30 2010 11:09 AM			5:13
Sleep		Mon Aug 30 2010 11:15 AM			22:03
Hold		Mon Aug 30 2010 11:37 AM			0:46+

Serial Number 36424

Aug 30, 2010

11:41 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 130d 14:34:19

Battery  - +

Flow Calibrate

Approx Correction
+40.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
59.7	113.1	82.5	64.5

Pressure (in-Hg)

27.76	28.36	27.98	28.07
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0268

Station Location: T-3 (Water Treatment Station) Sample ID #: _____
Field Technician: JA Filter Lot #: 19828-03
Pump Type/Model: SKC AirChek 2000 Sample Type: TEM
Pump Number: 36442 Sample Parent ID #: _____
Sampling Period: 30

PUMP SETUP DAY

Date: 8-24-10 Timer Beginning Date/Time: 8-25-10/12:00 AM
Time: 2:43 pm Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

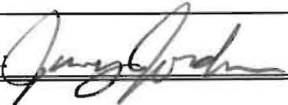
PUMP RETRIEVAL DAY

Date: 8-30-10 Timer Ending Date/Time: 8-30-10/12:00 AM
Time: 11:26 AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FL0
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.86
Temperature inside station unit (°F): 60.2 Pump/56.0x

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

very windy on the 25th, 26th and 29th
lots of smoke in the air on the 26th

SIGNATURE

DATE: 8-30-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-0268

Station Location: T-3 (Water Treatment Station) Sample ID #:
Field Technician: JD Filter Lot #: 19828-03
Pump Type/Model: SKC AirChek 2000
Pump Number: 36442

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-25-10 (JD) Flow Rate (L/min): 2
Time: 6:38 pm () Cumulative Sample Volume (L): 2236
Cumulative Sample Time (min): 1117
Atmospheric Pressure (INS): 28.05
Temperature inside station unit (°F): 105.0 Pump / 95 Box
Battery voltage reading (volts): 12.90

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-27-10 (JD) Flow Rate (L/min): 2
Time: 11:13 am () Cumulative Sample Volume (L): 7107
Cumulative Sample Time (min): 3553
Atmospheric Pressure (INS): 27.94
Temperature inside station unit (°F): 73.2 Pump / 66 Box
Battery voltage reading (volts): 12.77

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History**SN 36442****Date Printed: Monday, August 30, 2010 11:46 AM****Min Temp 56.0F****Max Temp 105.4F****TWA Temp 74.3F****Min Pressure 27.7 In-Hg****Max Pressure 28.2 In-Hg****TWA Pressure 27.9 In-Hg****Flow Correction Approximately -10.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Tue Aug 24 2010 1:12 PM			6:56
Sleep		Tue Aug 24 2010 1:19 PM			10:40:46
Prog (Run)	2000	Wed Aug 25 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Aug 30 2010 12:00 AM			4:59
Sleep		Mon Aug 30 2010 12:05 AM			11:20:53
Hold		Mon Aug 30 2010 11:25 AM			5:18
Sleep		Mon Aug 30 2010 11:31 AM			13:17
Hold		Mon Aug 30 2010 11:44 AM			1:31+

Serial Number 36442

Aug 30, 2010

11:47 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
-10.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
56.0	105.4	74.3	58.2

Pressure (in-Hg)

27.71	28.20	27.86	27.87
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0269

Station Location: T-4 (Troy Info Center)
Field Technician: [Signature]
Pump Type/Model: SKC AirChek 2000
Pump Number: 36446
Sampling Period: 30

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 8-24-10
Time: 2:47pm

Timer Beginning Date/Time: 8-25-10/12:00am
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-30-10
Time: 9:05am

Timer Ending Date/Time: 8-30-10/12:00am
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.52
Temperature inside station unit (°F): 62.1 pump / 52 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Lab next door dug trenches for water line during sample period I had them water down dirt as they worked.

Very windy on the 25th, 26th and 29th. Lots of smoke in the air on the night of the 26th [Signature]

SIGNATURE: [Signature]DATE: 8-30-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET
ADDITIONAL DAILY CHECK RECORDS

TA-0269

Station Location: T-4 (Troy Info Center)
Field Technician: JA
Pump Type/Model: SKC AirChek 2000
Pump Number: 36446

Sample ID #:
Filter Lot #: 19828-03

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-25-10 (JA) Flow Rate (L/min): 2
Time: 6:19 PM () Cumulative Sample Volume (L): 2197
Cumulative Sample Time (min): 1098
Atmospheric Pressure (INS): 27.64
Temperature inside station unit (°F): 105.6 pump / 94 box
Battery voltage reading (volts): 12.72

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 8-27-10 (JA) Flow Rate (L/min): 2
Time: 11:17 AM () Cumulative Sample Volume (L): 7114
Cumulative Sample Time (min): 3557
Atmospheric Pressure (INS): 27.58
Temperature inside station unit (°F): 79.2 pump / 70 box
Battery voltage reading (volts): 12.80

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History**SN 36446****Date Printed: Monday, August 30, 2010 11:49 AM****Min Temp 58.0F****Max Temp 106.1F****TWA Temp 76.8F****Min Pressure 27.3 In-Hg****Max Pressure 27.9 In-Hg****TWA Pressure 27.5 In-Hg****Flow Correction Approximately -10.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Tue Aug 24 2010 1:17 PM			5:11
Sleep		Tue Aug 24 2010 1:22 PM			10:37:14
Prog (Run)	2000	Wed Aug 25 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Mon Aug 30 2010 12:00 AM			4:59
Sleep		Mon Aug 30 2010 12:05 AM			9:00:12
Hold		Mon Aug 30 2010 9:05 AM			5:19
Sleep		Mon Aug 30 2010 9:10 AM			2:32:09
Hold		Mon Aug 30 2010 11:42 AM			6:19+

Serial Number 36446

Aug 30, 2010

11:48 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
-10.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
58.0	106.1	76.8	63.5

Pressure (in-Hg)

27.28	27.85	27.47	27.56
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0270

Station Location: T-4QC (Troy Info Center)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36444

Sample Parent ID #:

Sampling Period: 30

TA-0269

PUMP SETUP DAY

Date: 8-24-10

Timer Beginning Date/Time: 8-25-10/12:00AM

Time: 2:45 PM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-30-10

Timer Ending Date/Time: 8-30-10/12:00AM

Time: 9:11 AM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0 FLO

Total Sample Time (min): 7200

Atmospheric Pressure (INS): 27.62

Temperature inside station unit (°F): 64.1 pump/52 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Lab next door dug trenches for a waterline during sample period. I had them water down dirt as they worked.

Very windy on the 25th, 26th and 29th. Lots of smoke in the air on the night of the 26th JD

SIGNATURE: JD

DATE: 8-30-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET

ADDITIONAL DAILY CHECK RECORDS

TA-0270

Station Location: T-4QC (Troy Info Center)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Pump Number: 36444

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-25-10 (JD)

Time: 6:23 PM ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 2206

Cumulative Sample Time (min): 1103

Atmospheric Pressure (INS): 27.78

Temperature inside station unit (°F): 110.1 Pump/94 Box

Battery voltage reading (volts): 12.90

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-27-10 (JD)

Time: 11:22 AM ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 7123

Cumulative Sample Time (min): 3561

Atmospheric Pressure (INS): 27.68

Temperature inside station unit (°F): 80.7 Pump/70 Box

Battery voltage reading (volts): 12.78

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36444****Date Printed: Monday, August 30, 2010 11:58 AM****Min Temp 59.6F****Max Temp 110.4F****TWA Temp 79.1F****Min Pressure 27.4 In-Hg****Max Pressure 28.0 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately +30.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Tue Aug 24 2010 1:10 PM			5:16
Sleep		Tue Aug 24 2010 1:16 PM			10:43:51
Prog (Run)	2000	Wed Aug 25 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Mon Aug 30 2010 12:00 AM			4:59
Sleep		Mon Aug 30 2010 12:05 AM			9:06:34
Hold		Mon Aug 30 2010 9:11 AM			5:24
Sleep		Mon Aug 30 2010 9:16 AM			2:40:06
Hold		Mon Aug 30 2010 11:57 AM			0:55+

Serial Number 36444

Aug 30, 2010

12:00 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
+30.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
59.6	110.4	79.1	67.6

Pressure (in-Hg)

27.45	27.97	27.59	27.70
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0271

Station Location: T-5 (State Shop)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36427
Sampling Period: 30

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: _____

PUMP SETUP DAY

Date: 8-24-10
Time: 2:46 PM

Timer Beginning Date/Time: 8-25-10/12:00 AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-30-10
Time: 10:16 AM

Timer Ending Date/Time: 8-30-10/12:00 AM
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0.5 L
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.82
Temperature inside station unit (°F): 60.8 pump/51 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Very windy on the 25th, 26th, and 29th
Lots of smoke in the air on the night
of the 26th. JD

SIGNATURE: JDDATE: 8-30-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0271

Station Location: T-5 (State Shop)
Field Technician:
Pump Type/Model: SKC AirChek 2000
Pump Number: 36427

Sample ID #:
Filter Lot #: 19828-03

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-25-10 ()
Time: 6:44pm ()

PUMP FAULT (Yes / No): NOFlow Rate (L/min): 2Cumulative Sample Volume (L): 2249Cumulative Sample Time (min): 1124Atmospheric Pressure (INS): 27.96Temperature inside station unit (°F): 106.4 pump / 97 boxBattery voltage reading (volts): 12.90

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-27-10 ()
Time: 10:37am ()

PUMP FAULT (Yes / No): NOFlow Rate (L/min): 2Cumulative Sample Volume (L): 7035Cumulative Sample Time (min): 3517Atmospheric Pressure (INS): 27.85Temperature inside station unit (°F): 70.6 pump / 62 boxBattery voltage reading (volts): 12.79~~DAILY CHECK (For each station visit)~~~~(Field Tech Initials)~~~~Date: ()
Time: ()~~~~PUMP FAULT (Yes / No):~~~~Flow Rate (L/min):~~~~Cumulative Sample Volume (L):~~~~Cumulative Sample Time (min):~~~~Atmospheric Pressure (INS):~~~~Temperature inside station unit (°F):~~~~Battery voltage reading (volts):~~~~DAILY CHECK (For each station visit)~~~~(Field Tech Initials)~~~~Date: ()
Time: ()~~~~PUMP FAULT (Yes / No):~~~~Flow Rate (L/min):~~~~Cumulative Sample Volume (L):~~~~Cumulative Sample Time (min):~~~~Atmospheric Pressure (INS):~~~~Temperature inside station unit (°F):~~~~Battery voltage reading (volts):~~~~DAILY CHECK (For each station visit)~~~~(Field Tech Initials)~~~~Date: ()
Time: ()~~~~PUMP FAULT (Yes / No):~~~~Flow Rate (L/min):~~~~Cumulative Sample Volume (L):~~~~Cumulative Sample Time (min):~~~~Atmospheric Pressure (INS):~~~~Temperature inside station unit (°F):~~~~Battery voltage reading (volts):~~

SKC Pump History**SN 36427****Date Printed: Monday, August 30, 2010 11:51 AM****Min Temp 56.1F****Max Temp 107.5F****TWA Temp 74.5F****Min Pressure 27.6 In-Hg****Max Pressure 28.2 In-Hg****TWA Pressure 27.8 In-Hg****Flow Correction Approximately +20.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Tue Aug 24 2010 1:15 PM			5:16
Sleep		Tue Aug 24 2010 1:20 PM			10:39:44
Prog (Run)	2000	Wed Aug 25 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Aug 30 2010 12:00 AM			4:59
Sleep		Mon Aug 30 2010 12:05 AM			10:11:33
Hold		Mon Aug 30 2010 10:16 AM			5:22
Sleep		Mon Aug 30 2010 10:21 AM			1:27:15
Hold		Mon Aug 30 2010 11:49 AM			1:49+

Serial Number 36427

Aug 30, 2010

11:51 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery

Flow Calibrate

Approx Correction
+20.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
56.1	107.5	74.5	68.7

Pressure (in-Hg)

27.62	28.15	27.79	27.94
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0272

Station Location: T-6 (Water Tower)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36422
Sampling Period: 30

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: _____

PUMP SETUP DAY

Date: 8-24-10
Time: 2:47 PM
Timer Beginning Date/Time: 8-25-10/12:00 AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-30-10
Time: 10:23 AM
Timer Ending Date/Time: 8-30-10/12:00 PM
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FL0
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.53
Temperature inside station unit (°F): 59.9 PUMP/SS BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Very windy on the 25th, 26th and 29th
Lots of smoke in the air on the night
of the 26th JD

SIGNATURE: JDDATE: 8-30-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0272

Station Location: T-6 (Water Tower)

Sample ID #:

Field Technician: JP

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Pump Number: 36422

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-25-10 (JP)

Time: 6:51 PM ()

PUMP FAULT (Yes / No): No

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 2262

Cumulative Sample Time (min): 1130

Atmospheric Pressure (INS): 27.72

Temperature inside station unit (°F): 100.7 Pump/90 Box

Battery voltage reading (volts): 12.92

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-27-10 (JP)

Time: 10:31 AM ()

PUMP FAULT (Yes / No): No

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 7023

Cumulative Sample Time (min): 3511

Atmospheric Pressure (INS): 27.60

Temperature inside station unit (°F): 72.1 Pump/64 Box

Battery voltage reading (volts): 12.80

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36422****Date Printed: Monday, August 30, 2010 11:54 AM****Min Temp 54.9F****Max Temp 103.7F****TWA Temp 73.1F****Min Pressure 27.3 In-Hg****Max Pressure 27.9 In-Hg****TWA Pressure 27.5 In-Hg****Flow Correction Approximately -10.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Tue Aug 24 2010 1:16 PM			5:47
Sleep		Tue Aug 24 2010 1:21 PM			10:38:14
Prog (Run)	2000	Wed Aug 25 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Mon Aug 30 2010 12:00 AM			4:59
Sleep		Mon Aug 30 2010 12:05 AM			10:18:22
Hold		Mon Aug 30 2010 10:23 AM			5:15
Sleep		Mon Aug 30 2010 10:28 AM			1:20:56
Hold		Mon Aug 30 2010 11:49 AM			4:26+

Serial Number 36422

Aug 30, 2010

11:54 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
-10.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
54.9	103.7	73.1	63.6

Pressure (in-Hg)

27.31	27.92	27.51	27.74
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0273

Station Location: T-7 (Jay's Rental)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36428
Sampling Period: 30

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 8-24-10
Time: 2:48pm

Timer Beginning Date/Time: 8-25-10/12:00am
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 8-30-10
Time: 10:32am

Timer Ending Date/Time: 8-30-10/12:00am
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.46
Temperature inside station unit (°F): 65.5 pump/56 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Very windy on the 25th, 26th and 29th
lots of smoke in the air on the night
of the 26th JD

SIGNATURE: JDDATE: 8-30-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0273

Station Location: T-7 (Jay's Rental)

Sample ID #:

Field Technician: JA

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Pump Number: 36428

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-25-10 (JA)

Time: 12:50 pm ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1540

Cumulative Sample Time (min): 770

Atmospheric Pressure (INS): 27.54

Temperature inside station unit (°F): 79.7 pump / 70 box

Battery voltage reading (volts): 12.85

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 8-27-10 (JA)

Time: 10:25 am ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 7010

Cumulative Sample Time (min): 3505

Atmospheric Pressure (INS): 27.50

Temperature inside station unit (°F): 71.3 pump / 68 box

Battery voltage reading (volts): 12.83

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36428****Date Printed: Monday, August 30, 2010 11:56 AM****Min Temp 57.3F****Max Temp 105.4F****TWA Temp 77.0F****Min Pressure 27.2 In-Hg****Max Pressure 27.9 In-Hg****TWA Pressure 27.4 In-Hg****Flow Correction Approximately -20.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Tue Aug 24 2010 1:17 PM			5:30
Sleep		Tue Aug 24 2010 1:23 PM			10:36:59
Prog (Run)	2000	Wed Aug 25 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Aug 30 2010 12:00 AM			4:59
Sleep		Mon Aug 30 2010 12:05 AM			10:27:34
Hold		Mon Aug 30 2010 10:32 AM			5:20
Sleep		Mon Aug 30 2010 10:37 AM			1:15:13
Hold		Mon Aug 30 2010 11:53 AM			2:52+

Serial Number 36428

Aug 30, 2010

11:57 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
-20.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
57.3	105.4	77.0	64.8

Pressure (in-Hg)

27.25	27.90	27.37	27.80
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SUMMARY

TA-0283

Sample ID #: _____
Filter Lot #: **19828-03**
Sample Type: **TEM**
Sample Parent ID #: _____

Date: 9-3-10
Time: 9:05 AM

Timer Beginning Date/Time: 9-4-10/12:00 AM
Beginning Flow Rate (L/min):
Pump Programmed (Yes / No):
Bios Calibration Within 10 mL (Yes / No)

Date: _____
Time: _____

Timer Ending Date/Time: 11/1/2011 11:11:11
 Ending Flow Rate (L/min): 11.11
 Total Sample Volume (L): 11.11
 Total Sample Time (min): 11.11
 Atmospheric Pressure (INS): 11.11
 Temperature inside station unit (°F): 11.11

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE:

DATE: 9-3-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0275

Station Location: T-1 (Tony's Rental)
Field Technician: gg
Pump Type/Model: SKC AirChek 2000
Pump Number: 36423
Sampling Period: 3 /

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 9-3-10
Time: 9:16 AM

Timer Beginning Date/Time: 9-4-10/12:00 AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-10-10
Time: 8:45 AM

Timer Ending Date/Time: 9-9-10/12:00 AM
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0.60
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.64
Temperature inside station unit (°F): 59.0 pump/52.0x

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Very windy on 4th windy and rain on 5th

SIGNATURE: Joe JordanDATE: 9-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0275

Station Location: T-1 (Tony's Rental)
Field Technician: TH
Pump Type/Model: SKC AirChek 2000
Pump Number: 36423Sample ID # _____
Filter Lot #: 19828-03

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 9-4-10 (TH) Flow Rate (L/min): 2
Time: 5:23 PM () Cumulative Sample Volume (L): 2086
Cumulative Sample Time (min): 1043
Atmospheric pressure (mm Hg): 2760
Temperature inside station unit (°F): 80.0 pump / 72.60 x
Battery voltage reading (volts): 12.87

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36423****Date Printed: Friday, September 10, 2010 9:43 AM****Min Temp 48.3F****Max Temp 80.8F****TWA Temp 59.9F****Min Pressure 27.5 In-Hg****Max Pressure 27.9 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately -80.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Sep 3 2010 8:44 AM			5:09
Sleep		Fri Sep 3 2010 8:49 AM			15:10:03
Prog (Run)	2000	Sat Sep 4 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Thu Sep 9 2010 12:00 AM			4:59
Sleep		Thu Sep 9 2010 12:05 AM			1d 8:39:46
Hold		Fri Sep 10 2010 8:44 AM			5:21
Sleep		Fri Sep 10 2010 8:50 AM			49:38
Hold		Fri Sep 10 2010 9:39 AM			3:15+

Serial Number 36423

Sep 10, 2010

9:43 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.10

Run Time 5d 0:00:03

Total Time 73d 22:03:26

Battery  - +

Flow Calibrate

Approx Correction
-80.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
48.3	80.8	59.9	51.2

Pressure (in-Hg)

27.47	27.87	27.62	27.83
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0276

Station Location: T-2 (Fire Station) Sample ID #: _____
Field Technician: BT Filter Lot #: 19828-03
Pump Type/Model: SKC AirChek 2000 Sample Type: TEM
Pump Number: 36424 Sample Parent ID #: _____
Sampling Period: 31

PUMP SETUP DAY

Date: 9-3-10 Timer Beginning Date/Time: 9-4-10/12:00AM
Time: 9:17AM Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-10-10 Timer Ending Date/Time: 9-9-10/12:00AM
Time: 8:37AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 28.00
Temperature inside station unit (°F): 70.6 Pump/54 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Very windy on 4th windy and rain on 5thSIGNATURE: [Signature]DATE: 9-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0276

Station Location: T-2 (Fire Station)

Sample ID #:

Field Technician: 99

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Pump Number: 36424

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-4-10 (99)Time: 5:16pm ()PUMP FAULT (Yes / No): noFlow Rate (L/min): 2Cumulative Sample Volume (L): 2073Cumulative Sample Time (min): 1036Atmospheric Pressure (INS): 28.00Temperature inside station unit (°F): 98.4F pump / 86.8oxBattery voltage reading (volts): 12.82

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36424****Date Printed: Friday, September 10, 2010 9:48 AM****Min Temp 55.8F****Max Temp 100.0F****TWA Temp 71.4F****Min Pressure 27.7 In-Hg****Max Pressure 28.2 In-Hg****TWA Pressure 28.0 In-Hg****Flow Correction Approximately +30.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Sep 3 2010 8:42 AM			5:20
Sleep		Fri Sep 3 2010 8:48 AM			15:11:50
Prog (Run)	2000	Sat Sep 4 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Thu Sep 9 2010 12:00 AM			4:59
Sleep		Thu Sep 9 2010 12:05 AM			1d 8:32:18
Hold		Fri Sep 10 2010 8:37 AM			5:14
Sleep		Fri Sep 10 2010 8:42 AM			56:57
Hold		Fri Sep 10 2010 9:39 AM			6:03
Sleep		Fri Sep 10 2010 9:45 AM			1:32
Hold		Fri Sep 10 2010 9:47 AM			0:56+

Serial Number 36424

Sep 10, 2010

9:48 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.10

Run Time 5d 0:00:03

Total Time 135d 14:50:07

Battery  - +

Flow Calibrate

Approx Correction
+30.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
55.8	100.0	71.4	55.4

Pressure (in-Hg)

27.68	28.21	27.96	28.12
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0277

Station Location: T-3 (Water Treatment Station) Sample ID #: _____
Field Technician: [Signature] Filter Lot #: 19828-03
Pump Type/Model: SKC AirChek 2000 Sample Type: TEM
Pump Number: 36442 Sample Parent ID #: —
Sampling Period: 31

PUMP SETUP DAY

Date: 9-3-10 Timer Beginning Date/Time: 9-4-10/12:00AM
Time: 9:18 AM Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-10-10 Timer Ending Date/Time: 9-9-10/12:00AM
Time: 8:54 AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.80
Temperature inside station unit (°F): 62.5 pump/54 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Very Windy on 4th windy and rain on 5th 9/9SIGNATURE: [Signature]DATE: 9-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0277

Station Location: T-3 (Water Treatment Station)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Pump Number: 36442

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-4-10 (JD)

Time: 5:32pm ()

PUMP FAULT (Yes / No): No

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 2103

Cumulative Sample Time (min): 1051

Atmospheric Pressure (INS): 27.88

Temperature inside station unit (°F): 90.6 pump / 82.8 ox

Battery voltage reading (volts): 12.86

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36442****Date Printed: Friday, September 10, 2010 9:50 AM****Min Temp 52.1F****Max Temp 91.7F****TWA Temp 65.9F****Min Pressure 27.6 In-Hg****Max Pressure 28.0 In-Hg****TWA Pressure 27.8 In-Hg****Flow Correction Approximately -30.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Sep 3 2010 8:45 AM			5:04
Sleep		Fri Sep 3 2010 8:50 AM			15:09:23
Prog (Run)	2000	Sat Sep 4 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Thu Sep 9 2010 12:00 AM			4:59
Sleep		Thu Sep 9 2010 12:05 AM			1d 8:49:25
Hold		Fri Sep 10 2010 8:54 AM			5:16
Sleep		Fri Sep 10 2010 8:59 AM			47:24
Hold		Fri Sep 10 2010 9:47 AM			2:54+

Serial Number 36442

Sep 10, 2010

9:50 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 105d 7:43:24

Battery  - +

Flow Calibrate

Approx Correction
-30.0 ml/min

Down Reset Up

☐ Multiple Pumps

Pump Controls

Run Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
52.1	91.7	65.9	53.7

Pressure (in-Hg)

27.62	28.04	27.84	27.95
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0278

Station Location: T-4 (Troy Info Center)

Sample ID #:

Field Technician: JAFilter Lot #: 19828-03Pump Type/Model: SKC AirChek 2000Sample Type: TEMPump Number: 36446Sample Parent ID #: ✓Sampling Period: 31

PUMP SETUP DAY

Date: 9-3-10Time: 9:19 AMTimer Beginning Date/Time: 9-4-10/12:00 AMBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): YesBios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-10-10Time: 7:55Timer Ending Date/Time: 9-9-10/12:00 AMEnding Flow Rate (L/min): 2Total Sample Volume (L): 0 FLOTotal Sample Time (min): 7200Atmospheric Pressure (INS): 27.50Temperature inside station unit (°F): 63.6 pump/53 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Very windy on 4th, windy and rain on 5thSIGNATURE: [Signature]DATE: 9-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0278

Station Location: T-4 (Troy Info Center)

Sample ID #:

Field Technician: CH

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Pump Number: 36446

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-4-10 (CH)

Time: 5:37pm ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 2114

Cumulative Sample Time (min): 1057

Atmospheric Pressure (INS): 27.47

Temperature inside station unit (°F): 92.7 pump / 82 box

Battery voltage reading (volts): 12.87

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36446****Date Printed: Friday, September 10, 2010 10:07 AM****Min Temp 53.4F****Max Temp 96.4F****TWA Temp 67.8F****Min Pressure 27.3 In-Hg****Max Pressure 27.7 In-Hg****TWA Pressure 27.4 In-Hg****Flow Correction Approximately -20.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Sep 3 2010 8:46 AM			5:04
Sleep		Fri Sep 3 2010 8:51 AM			15:08:33
Prog (Run)	2000	Sat Sep 4 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Thu Sep 9 2010 12:00 AM			4:59
Sleep		Thu Sep 9 2010 12:05 AM			1d 7:49:48
Hold		Fri Sep 10 2010 7:54 AM			5:18
Sleep		Fri Sep 10 2010 8:00 AM			2:02:06
Hold		Fri Sep 10 2010 10:02 AM			4:47+

Serial Number 36446

Sep 10, 2010

10:07 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
-20.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
53.4	96.4	67.8	55.7

Pressure (in-Hg)

27.28	27.71	27.45	27.62
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0279

Station Location: T-4QC (Troy Info Center)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36444

Sample Parent ID #:

Sampling Period: 3/5

TA-0278

PUMP SETUP DAY

Date: 9-3-10

Timer Beginning Date/Time: 9-4-10/12:00AM

Time: 9:20AM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-10-10

Timer Ending Date/Time: 9-9-10/12:00AM

Time: 7:57AM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0FLO

Total Sample Time (min): 7200

Atmospheric Pressure (INS): 27.51

Temperature inside station unit (°F): 71.8 pump/53Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Very windy on 4th windy and rain on 5th 10/10

SIGNATURE: [Signature]

DATE: 9-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0279

Station Location: T-4QC (Troy Info Center)
Field Technician:
Pump Type/Model: SKC AirChek 2000
Pump Number: 36444Sample ID #:
Filter Lot #: 19828-03

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 9-7-10 (99) Flow Rate (L/min): 2
Time: 5:39pm () Cumulative Sample Volume (L): 2117
Cumulative Sample Time (min): 1058
Atmospheric Pressure (INS): 27.60
Temperature inside station unit (°F): 95.6 Pump/82.89x
Battery voltage reading (volts): 12.87

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

Min Pressure 27.3 In-Hg
 Max Pressure 27.8 In-Hg
 TWA Pressure 27.6 In-Hg
 Flow Correction Approximately +10.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	----	----	-----	-----	-----
Prog (Hold)		Fri Sep 3 2010 8:47 AM			5:05
Sleep		Fri Sep 3 2010 8:52 AM			15:07:48
Prog (Run)	2000	Sat Sep 4 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Thu Sep 9 2010 12:00 AM			4:59
Sleep		Thu Sep 9 2010 12:05 AM			1d 7:51:54
Hold		Fri Sep 10 2010 7:56 AM			5:12
Sleep		Fri Sep 10 2010 8:02 AM			1:45:04
Hold		Fri Sep 10 2010 9:47 AM			4:58
Sleep		Fri Sep 10 2010 9:52 AM			10:05
Hold		Fri Sep 10 2010 10:02 AM			1:46+

Serial Number 36444

Sep 10, 2010

10:05 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
+10.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
55.0	98.0	69.8	58.7

Pressure (in-Hg)

27.30	27.82	27.56	27.74
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0280

Station Location: T-5 (State Shop)
Field Technician: JS
Pump Type/Model: SKC AirChek 2000
Pump Number: 36427
Sampling Period: 3/2

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 9-3-10 Timer Beginning Date/Time: 9-4-10/12:00AM
Time: 9:21 AM Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-10-10 Timer Ending Date/Time: 9-9-10/12:00AM
Time: 8:24 AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FL0
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.83
Temperature inside station unit (°F): 63.8 pump/52 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

very windy on 4th, windy and rain on 5thSIGNATURE: JSDATE: 9-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA &
ADDITIONAL DAILY CHECK RECORDS

TA-0280

Station Location: T-5 (State Shop)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Pump Number: 36427

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-4-10 (JD)

Time: 4:58 PM ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 2037

Cumulative Sample Time (min): 1018

Atmospheric Pressure (INS): 29.78

Temperature inside station unit (°F): 91.5 Pump / 80 Box

Battery voltage reading (volts): 12.86

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-4-10 (P)

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36427****Date Printed: Friday, September 10, 2010 10:11 AM****Min Temp 52.1F****Max Temp 95.1F****TWA Temp 66.2F****Min Pressure 27.6 In-Hg****Max Pressure 28.0 In-Hg****TWA Pressure 27.8 In-Hg****Flow Correction Approximately +40.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Sep 3 2010 8:49 AM			5:07
Sleep		Fri Sep 3 2010 8:54 AM			15:05:25
Prog (Run)	2000	Sat Sep 4 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Thu Sep 9 2010 12:00 AM			4:59
Sleep		Thu Sep 9 2010 12:05 AM			1d 8:19:26
Hold		Fri Sep 10 2010 8:24 AM			5:16
Sleep		Fri Sep 10 2010 8:29 AM			1:38:43
Hold		Fri Sep 10 2010 10:08 AM			2:34+

Serial Number 36427

Sep 10, 2010
10:11 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 151d 2:56:19

Battery  - +

Flow Calibrate

Approx Correction
+40.0 ml/min

Down Reset Up

☐ Multiple Pumps

Pump Controls

Run Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
52.1	95.1	66.2	55.7

Pressure (in-Hg)

27.62	28.00	27.79	27.95
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0281

Station Location: T-6 (Water Tower)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36422
Sampling Period: 31

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: -

PUMP SETUP DAY

Date: 9-3-10
Time: 9:22 AM

Timer Beginning Date/Time: 9-4-10/12:00 AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-10-10
Time: 8:16 AM

Timer Ending Date/Time: 9-9-10/12:00 AM
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.57
Temperature inside station unit (°F): 62.7 Pump/50 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

very windy on 4TH, windy and rain on 5TH

SIGNATURE: [Signature]DATE: 9-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0281

Station Location: T-6 (Water Tower)

Sample ID #

Field Technician: JD

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Pump Number: 36422

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-4-10 (JD)

Time: 4:53pm ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 2026

Cumulative Sample Time (min): 1013

Atmospheric Pressure (INS): 27.54

Temperature inside station unit (°F): 88.4 pump / 80 box

Battery voltage reading (volts): 12.85

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36422****Date Printed: Friday, September 10, 2010 10:13 AM****Min Temp 49.7F****Max Temp 90.0F****TWA Temp 68.6F****Min Pressure 27.2 In-Hg****Max Pressure 27.7 In-Hg****TWA Pressure 27.5 In-Hg****Flow Correction Approximately -70.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Sep 3 2010 8:48 AM			5:06
Sleep		Fri Sep 3 2010 8:53 AM			15:06:22
Prog (Run)	2000	Sat Sep 4 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Thu Sep 9 2010 12:00 AM			4:59
Sleep		Thu Sep 9 2010 12:05 AM			1d 8:11:18
Hold		Fri Sep 10 2010 8:16 AM			5:19
Sleep		Fri Sep 10 2010 8:21 AM			1:48:47
Hold		Fri Sep 10 2010 10:10 AM			2:35+

Serial Number 36422

Sep 10, 2010

10:13 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
-70.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
49.7	90.0	68.6	53.2

Pressure (in-Hg)

27.23	27.69	27.45	27.79
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0282

Station Location: T-7 (Jay's Rental)

Sample ID #:

Field Technician: JA

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36428

Sample Parent ID #: —

Sampling Period: 31

PUMP SETUP DAY

Date: 9-3-10

Timer Beginning Date/Time: 9-4-10/12:00 AM

Time: 9:23 AM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-10-10

Timer Ending Date/Time: 9-9-10/12:00 AM

Time: 7:15 AM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0.40

Total Sample Time (min): 72.00

Atmospheric Pressure (INS): 27.59

Temperature inside station unit (°F): 63.6 Pump/59 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

very windy 4th, windy and rain on 5th 9/9

SIGNATURE: Ing Jordan

DATE: 9-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA &
ADDITIONAL DAILY CHECK RECORDS

TA-0282

Station Location: T-7 (Jay's Rental)
Field Technician: JA
Pump Type/Model: SKC AirChek 2000
Pump Number: 36428

Sample ID #: _____
Filter Lot #: 19828-03

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 9-4-10 (JA)
Time: 4:47PM ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 2014
Cumulative Sample Time (min): 1007
Atmospheric Pressure (INS): 27.35
Temperature inside station unit (°F): 91.4 PUMP / 82.8 ex
Battery voltage reading (volts): 12.84

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36428****Date Printed: Friday, September 10, 2010 10:09 AM****Min Temp 52.8F****Max Temp 93.1F****TWA Temp 68.3F****Min Pressure 27.2 In-Hg****Max Pressure 27.7 In-Hg****TWA Pressure 27.4 In-Hg****Flow Correction Approximately -70.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Sep 3 2010 8:47 AM			5:07
Sleep		Fri Sep 3 2010 8:52 AM			15:07:06
Prog (Run)	2000	Sat Sep 4 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Thu Sep 9 2010 12:00 AM			4:59
Sleep		Thu Sep 9 2010 12:05 AM			1d 7:53:09
Hold		Fri Sep 10 2010 7:58 AM			5:04
Sleep		Fri Sep 10 2010 8:03 AM			2:02:44
Hold		Fri Sep 10 2010 10:05 AM			3:02+

Serial Number 36428

Sep 10, 2010

10:09 AM

Pump Real-Time Monitor

Pump
Status

Hold

Flow

2000

Volume

14400.13

Run Time

5d 0:00:04

Total Time

141d 3:56:00

Battery



Flow Calibrate

Approx Correction
-70.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
52.8	93.1	68.3	55.0

Pressure (in-Hg)

27.25	27.66	27.40	27.85
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0292

Station Location: Field Blank
Field Technician: QA
Pump Type/Model: —
Pump Number: —
Sampling Period: 32

Sample ID #: —
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 9-13-10
Time: 2:37pm

Timer Beginning Date/Time: 9-14-10/12:00pm
Beginning Flow Rate (L/min): —
Pump Programmed (Yes / No): —
Bios Calibration Within 10 mL (Yes / No): —

PUMP RETRIEVAL DAY

Date: —
Time: —

Timer Ending Date/Time: —
Ending Flow Rate (L/min): —
Total Sample Volume (L): —
Total Sample Time (min): —
Atmospheric Pressure (INS): —
Temperature inside station unit (°F): —

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: DATE: 9-13-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0284

Station Location: T-1 (Tony's Rental)
Field Technician: JP
Pump Type/Model: SKC AirChek 2000
Pump Number: 36423
Sampling Period: 3 2

Sample ID #
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 9-13-10
Time: 4:30 PM

Timer Beginning Date/Time: 9-14-10/12:00 AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-19-10
Time: 10:05 AM

Timer Ending Date/Time: 9-19-10/12:00 AM
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FL0
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.74
Temperature inside station unit (°F): 54.6 pump/51 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Scattered rain throughout sampling
period. JP

SIGNATURE:



DATE:

9-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0284

Station Location: T-1 (Tony's Rental)

Sample ID #:

Field Technician: 98

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Pump Number: 36423

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-14-10 (98)

Time: 9:15 AM ()

PUMP FAULT (Yes / No): No

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1111

Cumulative Sample Time (min): 555

Atmospheric pressure (mm Hg): 27.76

Temperature inside station unit (°F): 53.7 pump / 50 box

Battery voltage reading (volts): 12.80

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-18-10 (98)

Time: 2:35 PM ()

PUMP FAULT (Yes / No): No

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 0 FLO

Cumulative Sample Time (min): 6635

Atmospheric Pressure (INS): 27.74

Temperature inside station unit (°F): 57.8 pump / 53 box

Battery voltage reading (volts): 12.60

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36423****Date Printed: Sunday, September 19, 2010 10:41 AM****Min Temp 53.5F****Max Temp 79.5F****TWA Temp 62.4F****Min Pressure 27.6 In-Hg****Max Pressure 28.0 In-Hg****TWA Pressure 27.7 In-Hg****Flow Correction Approximately +10.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Mon Sep 13 2010 2:06 PM			5:22
Sleep		Mon Sep 13 2010 2:11 PM			9:48:30
Prog (Run)	2000	Tue Sep 14 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Sun Sep 19 2010 12:00 AM			4:59
Sleep		Sun Sep 19 2010 12:05 AM			9:59:45
Hold		Sun Sep 19 2010 10:04 AM			5:16
Sleep		Sun Sep 19 2010 10:10 AM			28:44
Hold		Sun Sep 19 2010 10:38 AM			2:14+

Serial Number 36423

Sep 19, 2010

10:41 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
+10.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
53.5	79.5	62.4	53.1

Pressure (in-Hg)

27.63	27.95	27.75	27.62
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0285

Station Location: T-2 (Fire Station)
Field Technician: JP
Pump Type/Model: SKC AirChek 2000
Pump Number: 36424
Sampling Period: 32

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: _____

PUMP SETUP DAY

Date: 9-13-10
Time: 4:31 PM

Timer Beginning Date/Time: 9-14-10/12:00 AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): YES
Bios Calibration Within 10 mL (Yes / No): YES

PUMP RETRIEVAL DAY

Date: 9-19-10
Time: 10:12 AM

Timer Ending Date/Time: 9-19-10/12:00 AM
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0.10
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 28.04
Temperature inside station unit (°F): 65.0 pump/54 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Scattered rain throughout sampling period.

SIGNATURE: Jay JordanDATE: 9-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA &
ADDITIONAL DAILY CHECK RECORDS

TA-0285

Station Location: T-2 (Fire Station)

Sample ID #:

Field Technician: JDFilter Lot #: 19828-03Pump Type/Model: SKC AirChek 2000Pump Number: 36424

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-14-10 (JD)Time: 9:21 AM ()PUMP FAULT (Yes / No): NOFlow Rate (L/min): 2Cumulative Sample Volume (L): 1123Cumulative Sample Time (min): 561Atmospheric Pressure (INS): 28.03Temperature inside station unit (°F): 64.5 Pump / 52.00xBattery voltage reading (volts): 12.76

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-18-10 ()Time: 2:41 PM ()PUMP FAULT (Yes / No): NOFlow Rate (L/min): 2Cumulative Sample Volume (L): 0 FLOCumulative Sample Time (min): 6641Atmospheric Pressure (INS): 28.03Temperature inside station unit (°F): 72.2 Pump / 59.60xBattery voltage reading (volts): 12.47

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

SKC Pump History**SN 36424****Date Printed: Sunday, September 19, 2010 10:42 AM****Min Temp 56.5F****Max Temp 96.1F****TWA Temp 74.0F****Min Pressure 28.0 In-Hg****Max Pressure 28.3 In-Hg****TWA Pressure 28.1 In-Hg****Flow Correction Approximately +30.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Mon Sep 13 2010 2:06 PM			8:23
Sleep		Mon Sep 13 2010 2:15 PM			9:44:40
Prog (Run)	2000	Tue Sep 14 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sun Sep 19 2010 12:00 AM			4:59
Sleep		Sun Sep 19 2010 12:05 AM			10:07:06
Hold		Sun Sep 19 2010 10:12 AM			5:17
Sleep		Sun Sep 19 2010 10:17 AM			24:47
Hold		Sun Sep 19 2010 10:42 AM			0:49+

Serial Number 36424

Sep 19, 2010

10:43 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 140d 15:13:03

Battery  - +

Flow Calibrate

Approx Correction
+30.0 ml/min

Down Reset Up

☐ Multiple Pumps

Pump Controls

Run Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
56.5	96.1	74.0	56.7

Pressure (in-Hg)

27.98	28.28	28.09	27.90
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0286

Station Location: T-3 (Water Treatment Station) Sample ID #: _____
Field Technician: JP Filter Lot #: 19828-03
Pump Type/Model: SKC AirChek 2000 Sample Type: TEM
Pump Number: 36442 Sample Parent ID #: _____
Sampling Period: 32

PUMP SETUP DAY

Date: 9-13-10 Timer Beginning Date/Time: 9-14-10/12:00AM
Time: 4:33PM Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-19-10 Timer Ending Date/Time: 9-19-10/12:00AM
Time: 9:55AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FL0
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.78
Temperature inside station unit (°F): 57.7 pump/53Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Scattered rain throughout sampling
period. JP

SIGNATURE: JPDATE: 9-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0286

Station Location: T-3 (Water Treatment Station) Sample ID #:
Field Technician: JD Filter Lot #: 19828-03
Pump Type/Model: SKC AirChek 2000
Pump Number: 36442

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 9-14-10 (JD) Flow Rate (L/min): 2
Time: 9:07am () Cumulative Sample Volume (L): 1094
Cumulative Sample Time (min): 546
Atmospheric Pressure (INS) 27.98
Temperature inside station unit (°F): 54.8 pump / 49 box
Battery voltage reading (volts): 12.81

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 9-18-10 (JD) Flow Rate (L/min): 2
Time: 2:26pm () Cumulative Sample Volume (L): 0 FL0
Cumulative Sample Time (min): 6626
Atmospheric Pressure (INS) 27.95
Temperature inside station unit (°F): 63.0 pump / 56 box
Battery voltage reading (volts): 12.56

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

Min Pressure 27.9 In-Hg
 Max Pressure 28.1 In-Hg
 TWA Pressure 28.0 In-Hg
 Flow Correction Approximately +10.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	----	----	-----	-----	-----
Prog (Hold)		Mon Sep 13 2010 2:02 PM			7:29
Sleep		Mon Sep 13 2010 2:10 PM			9:49:53
Prog (Run)	2000	Tue Sep 14 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sun Sep 19 2010 12:00 AM			4:59
Sleep		Sun Sep 19 2010 12:05 AM			9:50:21
Hold		Sun Sep 19 2010 9:55 AM			5:18
Sleep		Sun Sep 19 2010 10:00 AM			41:25
Hold		Sun Sep 19 2010 10:42 AM			2:55+

Serial Number 36442

Sep 19, 2010

10:45 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 110d 8:01:53

Battery  - +

Flow Calibrate

Approx Correction
+10.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
54.7	93.7	68.5	53.6

Pressure (in-Hg)

27.87	28.12	27.97	27.73
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0287

Station Location: T-4 (Troy Info Center)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36446

Sample Parent ID #:

Sampling Period: 32

PUMP SETUP DAY

Date: 9-13-10

Timer Beginning Date/Time: 9-14-10/12:00AM

Time: 4:34 PM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-19-10

Timer Ending Date/Time: 9-19-10/12:00AM

Time: 9:31 AM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0 FLO

Total Sample Time (min): 72.00

Atmospheric Pressure (INS): 27.53

Temperature inside station unit (°F): 58.8 Pump/52 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Lab next to sampling box doing construction
to Lab building throughout sampling
period. *JD*

Scattered rain throughout sampling
period. *JD*

SIGNATURE: *JD*

DATE: 9-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0287

Station Location: T-4 (Troy Info Center)

Sample ID #:

Field Technician: _____

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Pump Number: 36446

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-14-10 (gg)

Time: 9:59am ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1198

Cumulative Sample Time (min): 598

Atmospheric Pressure (INS): 27.56

Temperature inside station unit (°F): 61.6 pump / 54 box

Battery voltage reading (volts): 12.81

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-18-10 (gg)

Time: 2:07pm ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 0 FLO

Cumulative Sample Time (min): 6607

Atmospheric Pressure (INS): 27.57

Temperature inside station unit (°F): 64.2 pump / 56 box

Battery voltage reading (volts): 12.62

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

SKC Pump History**SN 36446****Date Printed: Sunday, September 19, 2010 10:31 AM****Min Temp 56.7F****Max Temp 96.4F****TWA Temp 70.4F****Min Pressure 27.5 In-Hg****Max Pressure 27.7 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately +40.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Mon Sep 13 2010 2:17 PM			5:02
Sleep		Mon Sep 13 2010 2:22 PM			9:37:50
Prog (Run)	2000	Tue Sep 14 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Sun Sep 19 2010 12:00 AM			4:59
Sleep		Sun Sep 19 2010 12:05 AM			9:26:11
Hold		Sun Sep 19 2010 9:31 AM			5:12
Sleep		Sun Sep 19 2010 9:36 AM			51:30
Hold		Sun Sep 19 2010 10:27 AM			3:06+

Serial Number 36446

Sep 19, 2010
10:31 AM

Pump Real-Time Monitor

Pump
Status

Hold

Flow

2000

Volume

14400.13

Run Time

5d 0:00:04

Total Time

148d 8:08:51

Battery



Flow Calibrate

Approx Correction
+40.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min

56.7

Max

96.4

TWA

70.4

Ambient

52.4

Pressure (in-Hg)

27.49

27.71

27.58

27.38

Units Selection

☒ Fahrenheit☐ Celsius☒ in-Hg☐ millibar☐ mm-Hg

Fault Options

Time to Fault (sec)

15

Number of Tries

10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0288

Station Location: T-4QC (Troy Info Center)

Sample ID #

Field Technician: JD

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36444

Sample Parent ID #

Sampling Period: 32

TA-0287

PUMP SETUP DAY

Date: 9-13-10

Timer Beginning Date/Time: 9-14-10/12:00AM

Time: 4:35 PM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 9-19-10

Timer Ending Date/Time: 9-19-10/12:00AM

Time: 9:32 AM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0 FLO

Total Sample Time (min): 7200

Atmospheric Pressure (INS) 27.60

Temperature inside station unit (°F): 61.2 pump/52 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Lab next to sampling box doing
construction to Lab building throughout
sampling period. JD
Scattered rain throughout sampling
period. JD

SIGNATURE: JD

DATE: 9-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0288

Station Location: T-4QC (Troy Info Center)

Sample ID #:

Field Technician: JSFilter Lot #: 19828-03Pump Type/Model: SKC AirChek 2000Pump Number: 36444

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-14-10 (JS)Time: 10:01 AM ()PUMP FAULT (Yes / No): NOFlow Rate (L/min): 2Cumulative Sample Volume (L): 1201Cumulative Sample Time (min): 600Atmospheric Pressure (INS): 27.66Temperature inside station unit (°F): 64.8 pump / 54 boxBattery voltage reading (volts): 12.78

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-18-10 (JS)Time: 2:09 PM ()PUMP FAULT (Yes / No): NOFlow Rate (L/min): 2Cumulative Sample Volume (L): 0 FLUCumulative Sample Time (min): 6609Atmospheric Pressure (INS): 27.58Temperature inside station unit (°F): 70.4 pump / 56 boxBattery voltage reading (volts): 12.50

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

SKC Pump History**SN 36444****Date Printed: Sunday, September 19, 2010 10:39 AM****Min Temp 59.6F****Max Temp 101.9F****TWA Temp 74.0F****Min Pressure 27.5 In-Hg****Max Pressure 27.8 In-Hg****TWA Pressure 27.7 In-Hg****Flow Correction Approximately +50.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Mon Sep 13 2010 2:00 PM			6:40
Sleep		Mon Sep 13 2010 2:07 PM			9:53:00
Prog (Run)	2000	Tue Sep 14 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sun Sep 19 2010 12:00 AM			4:59
Sleep		Sun Sep 19 2010 12:05 AM			9:27:02
Hold		Sun Sep 19 2010 9:32 AM			5:18
Sleep		Sun Sep 19 2010 9:37 AM			1:01:03
Hold		Sun Sep 19 2010 10:38 AM			0:36+

Serial Number 36444

Sep 19, 2010

10:39 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
+50.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
<input type="text" value="59.6"/>	<input type="text" value="101.9"/>	<input type="text" value="74.0"/>	<input type="text" value="55.3"/>

Pressure (in-Hg)

<input type="text" value="27.52"/>	<input type="text" value="27.82"/>	<input type="text" value="27.67"/>	<input type="text" value="27.50"/>
------------------------------------	------------------------------------	------------------------------------	------------------------------------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0289

Station Location: T-5 (State Shop)
Field Technician: JO
Pump Type/Model: SKC AirChek 2000
Pump Number: 36427
Sampling Period: 3 2

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: _____

PUMP SETUP DAY

Date: 9-13-10
Time: 4:36 PM

Timer Beginning Date/Time: 9-14-10/12:00 AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-19-10
Time: 9:10 AM

Timer Ending Date/Time: 9-19-10/12:00 AM
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.84
Temperature inside station unit (°F): 58.5 pump/51 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Scattered rain throughout sampling period.

SIGNATURE: [Signature]DATE: 9-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET

ADDITIONAL DAILY CHECK RECORDS

TA-0289

Station Location: T-5 (State Shop)

Sample ID #:

Field Technician: 99Filter Lot #: 19828-03Pump Type/Model: SKC AirChek 2000Pump Number: 36427

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 9-14-10 (99)Flow Rate (L/min): 2Time: 9:31 AM ()Cumulative Sample Volume (L): 1141Cumulative Sample Time (min): 570Atmospheric Pressure (INS): 27.91Temperature inside station unit (°F): 56.2 PHMP / 48.80Battery voltage reading (volts): 12.84

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 9-18-10 (99)Flow Rate (L/min): 2Time: 2:00 PM ()Cumulative Sample Volume (L): 0 FLOCumulative Sample Time (min): 6600Atmospheric Pressure (INS): 27.90Temperature inside station unit (°F): 63.5 PHMP 54.80Battery voltage reading (volts): 12.57

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36427****Date Printed: Sunday, September 19, 2010 10:33 AM****Min Temp 55.4F****Max Temp 95.1F****TWA Temp 68.5F****Min Pressure 27.8 In-Hg****Max Pressure 28.1 In-Hg****TWA Pressure 27.9 In-Hg****Flow Correction Approximately +40.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Mon Sep 13 2010 2:11 PM			7:16
Sleep		Mon Sep 13 2010 2:19 PM			9:40:58
Prog (Run)	2000	Tue Sep 14 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sun Sep 19 2010 12:00 AM			4:59
Sleep		Sun Sep 19 2010 12:05 AM			9:04:45
Hold		Sun Sep 19 2010 9:09 AM			5:19
Sleep		Sun Sep 19 2010 9:15 AM			1:12:35
Hold		Sun Sep 19 2010 10:27 AM			5:20+

Serial Number 36427

Sep 19, 2010
10:33 AM

Pump Real-Time Monitor

Pump Status **Hold**Flow **2000**Volume **14400.13**Run Time **5d 0:00:04**Total Time **156d 3:23:56**Battery 
- +

Flow Calibrate

Approx Correction
+40.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
55.4	95.1	68.5	53.1

Pressure (in-Hg)

27.85	28.08	27.92	27.70
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) **15**Number of Tries **10**

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0290

Station Location: T-6 (Water Tower)
Field Technician: JP
Pump Type/Model: SKC AirChek 2000
Pump Number: 36422
Sampling Period: 32

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 9-13-10 Timer Beginning Date/Time: 9-14-10/12:00am
Time: 4:37pm Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-19-10 Timer Ending Date/Time: 9-19-10/12:00am
Time: 9:03am Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FL0
Total Sample Time (min): 72.00
Atmospheric Pressure (INS): 27.50
Temperature inside station unit (°F): 62.8 Pump/50 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Scattered rain throughout sampling
period. JP

SIGNATURE: JPDATE: 9-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-0290

Station Location: T-6 (Water Tower)

Sample ID #:

Field Technician: 99

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Pump Number: 36422

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-14-10 (99)

Time: 9:36 AM ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1152

Cumulative Sample Time (min): 576

Atmospheric Pressure (INS): 27.57

Temperature inside station unit (°F): 55.8 pump / 48 box

Battery voltage reading (volts): 12.83

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-18-10 (99)

Time: 1:53 PM ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 0510

Cumulative Sample Time (min): 6593

Atmospheric Pressure (INS): 27.51

Temperature inside station unit (°F): 68.8 pump / 54 box

Battery voltage reading (volts): 12.43

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36422****Date Printed: Sunday, September 19, 2010 10:35 AM****Min Temp 53.0F****Max Temp 97.8F****TWA Temp 72.0F****Min Pressure 27.5 In-Hg****Max Pressure 27.8 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately +10.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Mon Sep 13 2010 2:11 PM			5:29
Sleep		Mon Sep 13 2010 2:16 PM			9:43:30
Prog (Run)	2000	Tue Sep 14 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Sun Sep 19 2010 12:00 AM			4:59
Sleep		Sun Sep 19 2010 12:05 AM			8:58:29
Hold		Sun Sep 19 2010 9:03 AM			5:21
Sleep		Sun Sep 19 2010 9:08 AM			1:23:29
Hold		Sun Sep 19 2010 10:32 AM			2:41+

Serial Number 36422

Sep 19, 2010

10:35 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.10

Run Time 5d 0:00:03

Total Time 145d 18:15:48

Battery  - +

Flow Calibrate

Approx Correction
+10.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
53.0	97.8	72.0	50.7

Pressure (in-Hg)

27.46	27.77	27.56	27.55
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0291

Station Location: T-7 (Jay's Rental)

Sample ID #:

Field Technician: GP

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36428

Sample Parent ID #: 7

Sampling Period: 32

PUMP SETUP DAY

Date: 9-13-10

Time: 4:38 PM

Timer Beginning Date/Time: 9-14-10/12:00 AM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-19-10

Time: 8:54 AM

Timer Ending Date/Time: 9-19-10/12:00 AM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0.10

Total Sample Time (min): 72.00

Atmospheric Pressure (INS): 27.48

Temperature inside station unit (°F): 58.0 F / 55 Bx

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

scattered rain throughout sampling
period. GP

SIGNATURE: GP

DATE: 9-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0291

Station Location: T-7 (Jay's Rental)

Sample ID #:

Field Technician:

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Pump Number: 36428

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-14-10 (99)

Time: 9:42am ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1165

Cumulative Sample Time (min): 582

Atmospheric Pressure (INS): 27.54

Temperature inside station unit (°F): 56.3 PUMP / 52 BOX

Battery voltage reading (volts): 12.91

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 9-18-10 (99)

Time: 1:46pm ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 0 FLO

Cumulative Sample Time (min): 6586

Atmospheric Pressure (INS): 27.54

Temperature inside station unit (°F): 62.5 PUMP / 59 BOX

Battery voltage reading (volts): 12.72

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36428****Date Printed: Sunday, September 19, 2010 10:37 AM****Min Temp 55.4F****Max Temp 88.5F****TWA Temp 67.5F****Min Pressure 27.5 In-Hg****Max Pressure 27.7 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately +30.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Mon Sep 13 2010 2:15 PM			5:58
Sleep		Mon Sep 13 2010 2:21 PM			9:38:26
Prog (Run)	2000	Tue Sep 14 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Sun Sep 19 2010 12:00 AM			4:59
Sleep		Sun Sep 19 2010 12:05 AM			8:48:40
Hold		Sun Sep 19 2010 8:53 AM			5:27
Sleep		Sun Sep 19 2010 8:59 AM			1:35:28
Hold		Sun Sep 19 2010 10:34 AM			2:25+

Serial Number 36428

Sep 19, 2010

10:37 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
+30.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
55.4	88.5	67.5	52.4

Pressure (in-Hg)

27.49	27.74	27.56	27.61
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0301

Station Location: Field Blank
Field Technician: JD
Pump Type/Model:
Pump Number:
Sampling Period: 33

Sample ID #:
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #:

PUMP SETUP DAY

Date: 9-23-10 Timer Beginning Date/Time: 9-24-10 / 12:00AM
Time: 12:07PM Beginning Flow Rate (L/min):
Pump Programmed (Yes / No):
Bios Calibration Within 10 mL (Yes / No):

PUMP RETRIEVAL DAY

Date: Timer Ending Date/Time:
Time: Ending Flow Rate (L/min):
Total Sample Volume (L):
Total Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: JD JordanDATE: 9-23-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0293

Station Location: T-1 (Tony's Rental)

Sample ID #:

Field Technician: gg

Filter Lot #: 19828-03

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36423

Sample Parent ID #:

Sampling Period: 33

PUMP SETUP DAY

Date: 9-23-10

Time: 12:10 PM

Timer Beginning Date/Time: 9-24-10/12:00 AM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-29-10

Time: 11:33 AM

Timer Ending Date/Time: 9-29-10/12:00 AM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0.640

Total Sample Time (min): 7200

Atmospheric Pressure (INS): 27.94

Temperature inside station unit (°F): 64.7 pump/54 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Exterior removal on properties around

Troy before and during period 33.

Scattered rain throughout sampling period.

SIGNATURE: Aug Jones

DATE: 9-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-0293

Station Location: T-1 (Tony's Rental)
Field Technician: QG
Pump Type/Model: SKC AirChek 2000
Pump Number: 36423

Sample ID #:
Filter Lot #: 19828-03

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 9-24-10 (QG)
Time: 12:23 PM ()
PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1486
Cumulative Sample Time (min): 743
Atmospheric pressure (mm Hg): 27.93
Temperature inside station unit (°F): 57.1 pump / 52 Box
Battery voltage reading (volts): 12.77

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 9-28-10 (QG)
Time: 2:09 PM ()
PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 0FL0
Cumulative Sample Time (min): 6609
Atmospheric Pressure (INS): 27.67
Temperature inside station unit (°F): 71.4 pump / 65 Box
Battery voltage reading (volts): 12.58

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()
PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()
PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()
PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36423****Date Printed: Wednesday, September 29, 2010 12:14 PM****Min Temp 46.3F****Max Temp 80.8F****TWA Temp 60.9F****Min Pressure 27.6 In-Hg****Max Pressure 28.0 In-Hg****TWA Pressure 27.8 In-Hg****Flow Correction Approximately -100.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Thu Sep 23 2010 12:29 PM			8:26
Sleep		Thu Sep 23 2010 12:37 PM			11:22:06
Prog (Run)	2000	Fri Sep 24 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Wed Sep 29 2010 12:00 AM			4:59
Sleep		Wed Sep 29 2010 12:05 AM			11:28:35
Hold		Wed Sep 29 2010 11:33 AM			5:14
Sleep		Wed Sep 29 2010 11:38 AM			33:01
Hold		Wed Sep 29 2010 12:11 PM			2:10+

Serial Number 36423

Sep 29, 2010

12:15 PM

Pump Real-Time Monitor

Pump
Status

Hold

Flow

2000

Volume

14400.10

Run Time

5d 0:00:03

Total Time

83d 23:04:30

Battery



Flow Calibrate

Approx Correction
-100.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
46.3	80.8	60.9	58.3

Pressure (in-Hg)

27.63	28.03	27.83	28.01
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0294

Station Location: T-2 (Fire Station)
Field Technician: [Signature]
Pump Type/Model: SKC AirChek 2000
Pump Number: 36424
Sampling Period: 33

Sample ID #: _____
Filter Lot #: 19828-03
Sample Type: TEM
Sample Parent ID #: _____

PUMP SETUP DAY

Date: 9-23-10 Timer Beginning Date/Time: 9-24-10/12:00AM
Time: 12:11PM Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-29-10 Timer Ending Date/Time: 9-29-10/12:00AM
Time: 11:26AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 28.29
Temperature inside station unit (°F): 74.2 pump/68 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Exterior removal on Properties around
Troy before and during period 33
Scattered rain throughout sampling period. [Signature]

SIGNATURE

[Signature]DATE: 9-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0294

Station Location: T-2 (Fire Station)

Sample ID #

Field Technician: JDFilter Lot #: 19828-03Pump Type/Model: SKC AirChek 2000Pump Number: 36424

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 9-24-10 (JD)Flow Rate (L/min): 2Time: 12:17pm ()Cumulative Sample Volume (L): 1474Cumulative Sample Time (min): 736Atmospheric Pressure (INS): 28.25Temperature inside station unit (°F): 69.1 pump / 58.0 xBattery voltage reading (volts): 12.76

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 9-26-10 (JD)Flow Rate (L/min): 2Time: 2:03pm ()Cumulative Sample Volume (L): 0FL0Cumulative Sample Time (min): 6603Atmospheric Pressure (INS): 28.07Temperature inside station unit (°F): 87.3 pump / 75.8 xBattery voltage reading (volts): 12.34

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36424****Date Printed: Wednesday, September 29, 2010 12:12 PM****Min Temp 49.3F****Max Temp 98.7F****TWA Temp 73.2F****Min Pressure 27.9 In-Hg****Max Pressure 28.4 In-Hg****TWA Pressure 28.1 In-Hg****No Flow Correction**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Thu Sep 23 2010 12:25 PM			8:26
Sleep		Thu Sep 23 2010 12:33 PM			11:26:10
Prog (Run)	2000	Fri Sep 24 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Wed Sep 29 2010 12:00 AM			4:59
Sleep		Wed Sep 29 2010 12:05 AM			11:21:37
Hold		Wed Sep 29 2010 11:26 AM			5:15
Sleep		Wed Sep 29 2010 11:31 AM			38:04
Hold		Wed Sep 29 2010 12:09 PM			2:03+

Serial Number 36424

Sep 29, 2010

12:13 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
0.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
49.3	98.7	73.2	67.1

Pressure (in-Hg)

27.91	28.36	28.15	28.39
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0295

Station Location: T-3 (Water Treatment Station) Sample ID # _____
Field Technician: JP Filter Lot #: 19828-03
Pump Type/Model: SKC AirChek 2000 Sample Type: TEM
Pump Number: 36442 Sample Parent ID #: _____
Sampling Period: 33

PUMP SETUP DAY

Date: 9-23-10 Timer Beginning Date/Time: 9-24-10/12:00AM
Time: 12:08PM Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-29-10 Timer Ending Date/Time: 9-29-10/12:00AM
Time: 11:42AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FL0
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 28.11
Temperature inside station unit (°F): 67.6 Pump/60Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Exterior removal on properties around Troy
before and during period 33.
Scattered rain throughout sampling period

SIGNATURE: JPDATE: 9-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0295

Station Location: T-3 (Water Treatment Station) Sample ID # _____
Field Technician: DB Filter Lot #: 19828-03
Pump Type/Model: SKC AirChek 2000
Pump Number: 36442

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 9-24-10 (DB) Flow Rate (L/min): 2
Time: 12:31 PM () Cumulative Sample Volume (L): 1502
Cumulative Sample Time (min): 750
Atmospheric Pressure (INS): 28.18
Temperature inside station unit (°F): 62.2 pump / 55 Box
Battery voltage reading (volts): 12.70

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 9-28-10 (DB) Flow Rate (L/min): 2
Time: 2:18 PM () Cumulative Sample Volume (L): 0 FLO
Cumulative Sample Time (min): 6618
Atmospheric Pressure (INS): 27.98
Temperature inside station unit (°F): 82.9 pump / 74 Box
Battery voltage reading (volts): 12.53

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36442****Date Printed: Wednesday, September 29, 2010 12:10 PM****Min Temp 48.8F****Max Temp 90.4F****TWA Temp 66.2F****Min Pressure 27.9 In-Hg****Max Pressure 28.3 In-Hg****TWA Pressure 28.1 In-Hg****Flow Correction Approximately -70.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Thu Sep 23 2010 12:22 PM			7:01
Sleep		Thu Sep 23 2010 12:29 PM			11:30:19
Prog (Run)	2000	Fri Sep 24 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Wed Sep 29 2010 12:00 AM			4:59
Sleep		Wed Sep 29 2010 12:05 AM			11:36:48
Hold		Wed Sep 29 2010 11:41 AM			5:13
Sleep		Wed Sep 29 2010 11:47 AM			20:35
Hold		Wed Sep 29 2010 12:07 PM			2:23+

Serial Number 36442

Sep 29, 2010

12:10 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery

Flow Calibrate

Approx Correction
-70.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
<input type="text" value="48.8"/>	<input type="text" value="90.4"/>	<input type="text" value="66.2"/>	<input type="text" value="60.8"/>

Pressure (in-Hg)

<input type="text" value="27.87"/>	<input type="text" value="28.29"/>	<input type="text" value="28.05"/>	<input type="text" value="28.19"/>
------------------------------------	------------------------------------	------------------------------------	------------------------------------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0296

Station Location: T-4 (Troy Info Center)
Field Technician: aj
Pump Type/Model: SKC AirChek 2000
Pump Number: 36446
Sampling Period: 33

Sample ID #: _____
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #: _____

PUMP SETUP DAY

Date: 9-23-10 Timer Beginning Date/Time: 9-24-10/12:00AM
Time: 12:09 PM Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-29-10 Timer Ending Date/Time: 9-29-10/12:00AM
Time: 10:25 AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.78
Temperature inside station unit (°F): 69.8 pump/62 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Exterior removal on properties around Troy
before and during period 33.
Scattered rain throughout sampling period aj

SIGNATURE: [Signature]DATE: 9-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0296

Station Location: T-4 (Troy Info Center)

Sample ID #:

Field Technician: ABFilter Lot #: 19828-04Pump Type/Model: SKC AirChek 2000Pump Number: 36446

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 9-24-10 (98)Flow Rate (L/min): 2Time: 12:37 ()Cumulative Sample Volume (L): 15.14Cumulative Sample Time (min): 756Atmospheric Pressure (INS): 27.79Temperature inside station unit (°F): 63.0 pump / 55 BoxBattery voltage reading (volts): 12.76

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 9-28-10 (99)Flow Rate (L/min): 2Time: 2:26 PM ()Cumulative Sample Volume (L): 0.40Cumulative Sample Time (min): 1626Atmospheric Pressure (INS): 27.56Temperature inside station unit (°F): 87.0 pump / 74 BoxBattery voltage reading (volts): 12.56

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36446****Date Printed: Wednesday, September 29, 2010 12:03 PM****Min Temp 49.5F****Max Temp 90.5F****TWA Temp 67.4F****Min Pressure 27.5 In-Hg****Max Pressure 27.9 In-Hg****TWA Pressure 27.7 In-Hg****Flow Correction Approximately -40.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Thu Sep 23 2010 12:06 PM			6:41
Sleep		Thu Sep 23 2010 12:13 PM			11:46:22
Prog (Run)	2000	Fri Sep 24 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Wed Sep 29 2010 12:00 AM			4:59
Sleep		Wed Sep 29 2010 12:05 AM			10:20:09
Hold		Wed Sep 29 2010 10:25 AM			5:23
Sleep		Wed Sep 29 2010 10:30 AM			1:26:54
Hold		Wed Sep 29 2010 11:57 AM			5:34+

Serial Number 36446

Sep 29, 2010
12:04 PM

Pump Real-Time Monitor


Pump Status **Hold**

Flow **2000**

Volume **14400.10**

Run Time **5d 0:00:03**

Total Time **153d 8:25:25**

Battery  - +

Flow Calibrate

Approx Correction
-40.0 ml/min**Down** **Reset** **Up**☐ Multiple Pumps

Pump Controls

Run **Hold**
Set Flow**Reset Volume, Temp
Time and Pressure**

Temperatures (F)

Min	Max	TWA	Ambient
49.5	90.5	67.4	64.8

Pressure (in-Hg)

27.49	27.93	27.66	27.88
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) **15**Number of Tries **10****Set Fault Options**

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0297

Station Location: T-4QC (Troy Info Center)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36444

Sample Parent ID #:

Sampling Period: 33

TA-0296

PUMP SETUP DAY

Date: 9-23-10

Time: 12:12 PM

Timer Beginning Date/Time: 9-24-10/12:00 AM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-29-10

Time: 10:27 AM

Timer Ending Date/Time: 9-29-10/12:00 AM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0.10

Total Sample Time (min): 7200

Atmospheric Pressure (INS): 27.82

Temperature inside station unit (°F): 78.1 °C / 62.8 °C

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Exterior removal on properties around

Troy before and during period 33.

Scattered rain throughout sample period.

SIGNATURE: JD

DATE: 9-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0297

Station Location: T-4QC (Troy Info Center)

Sample ID #:

Field Technician: JDFilter Lot #: 19828-04Pump Type/Model: SKC AirChek 2000Pump Number: 36444

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 9-24-10 (99)Flow Rate (L/min): 2Time: 12:39pm ()Cumulative Sample Volume (L): 1517Cumulative Sample Time (min): 758Atmospheric Pressure (INS): 27.76Temperature inside station unit (°F): 71.1 PUMP / 55 BOXBattery voltage reading (volts): 12.71

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 9-28-10 (99)Flow Rate (L/min): 2Time: 2:27pm ()Cumulative Sample Volume (L): 0FL0Cumulative Sample Time (min): 6627Atmospheric Pressure (INS): 27.59Temperature inside station unit (°F): 95.1 PUMP / 74 BOXBattery voltage reading (volts): 12.37

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36444****Date Printed: Wednesday, September 29, 2010 12:16 PM****Min Temp 51.8F****Max Temp 99.9F****TWA Temp 75.9F****Min Pressure 27.4 In-Hg****Max Pressure 27.9 In-Hg****TWA Pressure 27.7 In-Hg****Flow Correction Approximately -20.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Thu Sep 23 2010 12:33 PM			5:07
Sleep		Thu Sep 23 2010 12:38 PM			11:21:40
Prog (Run)	2000	Fri Sep 24 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Wed Sep 29 2010 12:00 AM			4:59
Sleep		Wed Sep 29 2010 12:05 AM			10:22:10
Hold		Wed Sep 29 2010 10:27 AM			5:17
Sleep		Wed Sep 29 2010 10:32 AM			1:41:28
Hold		Wed Sep 29 2010 12:13 PM			2:04+

Serial Number 36444

Sep 29, 2010

12:17 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
-20.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
<input type="text" value="51.8"/>	<input type="text" value="99.9"/>	<input type="text" value="75.9"/>	<input type="text" value="67.7"/>

Pressure (in-Hg)

<input type="text" value="27.45"/>	<input type="text" value="27.89"/>	<input type="text" value="27.67"/>	<input type="text" value="27.95"/>
------------------------------------	------------------------------------	------------------------------------	------------------------------------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0298

Station Location: T-5 (State Shop)

Sample ID #:

Field Technician: GA

Filter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36427

Sample Parent ID #:

Sampling Period: 33

PUMP SETUP DAY

Date: 9-23-10

Timer Beginning Date/Time: 9-24-10/12:00AM

Time: 12:13 PM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-29-10

Timer Ending Date/Time: 9-29-10/12:00AM

Time: 11:15 AM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0.40

Total Sample Time (min): 7200

Atmospheric Pressure (INS): 28.05

Temperature inside station unit (°F): 67.5 temp / 54 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Exterior removal on properties around
tray before and during period 33.
Scattered rain throughout sampling period.

SIGNATURE: [Signature]

DATE: 9-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0298

Station Location: T-5 (State Shop)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36427

Sample ID # _____
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 9-24-10 (JD)
Time: 11:58 AM ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1436
Cumulative Sample Time (min): 718
Atmospheric Pressure (INS): 28.09
Temperature inside station unit (°F): 60.9 pump/52 Box
Battery voltage reading (volts): 12.74

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 9-28-10 (JD)
Time: 4:12 PM ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 8540
Cumulative Sample Time (min): 6731
Atmospheric Pressure (INS): 27.88
Temperature inside station unit (°F): 86.7 pump/74 Box
Battery voltage reading (volts): 12.56

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36427****Date Printed: Wednesday, September 29, 2010 12:08 PM****Min Temp 48.9F****Max Temp 91.2F****TWA Temp 67.1F****Min Pressure 27.8 In-Hg****Max Pressure 28.2 In-Hg****TWA Pressure 28.0 In-Hg****Flow Correction Approximately -10.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Thu Sep 23 2010 12:09 PM			11:30
Sleep		Thu Sep 23 2010 12:20 PM			11:39:19
Prog (Run)	2000	Fri Sep 24 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Wed Sep 29 2010 12:00 AM			4:59
Sleep		Wed Sep 29 2010 12:05 AM			11:09:58
Hold		Wed Sep 29 2010 11:14 AM			5:16
Sleep		Wed Sep 29 2010 11:20 AM			46:47
Hold		Wed Sep 29 2010 12:07 PM			0:58+

Serial Number 36427

Sep 29, 2010
12:08 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
-10.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
<input type="text" value="48.9"/>	<input type="text" value="91.2"/>	<input type="text" value="67.1"/>	<input type="text" value="64.1"/>

Pressure (in-Hg)

<input type="text" value="27.85"/>	<input type="text" value="28.23"/>	<input type="text" value="27.98"/>	<input type="text" value="28.15"/>
------------------------------------	------------------------------------	------------------------------------	------------------------------------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0299

Station Location: T-6 (Water Tower)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36422
Sampling Period: 33

Sample ID #: _____
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #: _____

PUMP SETUP DAY

Date: 9-23-10 Timer Beginning Date/Time: 9-24-10/12:00pm
Time: 12:14pm Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-29-10 Timer Ending Date/Time: 9-29-10/12:00pm
Time: 11:10 AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 72.74
Temperature inside station unit (°F): 70.8 pump / 58.80X

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Exterior removal on properties around
Troy before and during period 33.
Scattered rain throughout sampling period. JD

SIGNATURE: JDDATE: 9-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0299

Station Location: T-6 (Water Tower)
Field Technician:
Pump Type/Model: SKC AirChek 2000
Pump Number: 36422

Sample ID
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 9-24-10 ()
Time: 11:53 AM ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1426
Cumulative Sample Time (min): 713
Atmospheric Pressure (INS): 27.70
Temperature inside station unit (F): 65.3 pump / 52 box
Battery voltage reading (volts): 12.71

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 9-28-10 ()
Time: 4:17 PM ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 5640
Cumulative Sample Time (min): 67.37
Atmospheric Pressure (INS): 27.52
Temperature inside station unit (F): 92.5 pump / 74 box
Battery voltage reading (volts): 12.41

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ()
Time: ()

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ()
Time: ()

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ()
Time: ()

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (F):
Battery voltage reading (volts):

SKC Pump History**SN 36422****Date Printed: Wednesday, September 29, 2010 12:06 PM****Min Temp 46.4F****Max Temp 94.6F****TWA Temp 71.4F****Min Pressure 27.4 In-Hg****Max Pressure 27.8 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately -100.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Thu Sep 23 2010 12:16 PM			7:31
Sleep		Thu Sep 23 2010 12:24 PM			11:35:39
Prog (Run)	2000	Fri Sep 24 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Wed Sep 29 2010 12:00 AM			4:59
Sleep		Wed Sep 29 2010 12:05 AM			11:04:47
Hold		Wed Sep 29 2010 11:09 AM			5:14
Sleep		Wed Sep 29 2010 11:15 AM			49:08
Hold		Wed Sep 29 2010 12:04 PM			1:50+

Serial Number 36422

Sep 29, 2010

12:06 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
-100.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
46.4	94.6	71.4	66.2

Pressure (in-Hg)

27.38	27.85	27.61	28.06
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0300

Station Location: T-7 (Jay's Rental)
Field Technician: JP
Pump Type/Model: SKC AirChek 2000
Pump Number: 36428
Sampling Period: 33

Sample ID #: _____
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #: _____

PUMP SETUP DAY

Date: 9-23-10 Timer Beginning Date/Time: 9-24-10/12:00pm
Time: 12:15pm Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 9-29-10 Timer Ending Date/Time: 9-29-10/12:00AM
Time: 10:08AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0.510
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.72
Temperature inside station unit (°F): 72.2 pump/58.8ox

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Exterior removal on properties around
Troy before and during Period 33.

Scattered rain throughout sample period. (JP)

SIGNATURE: JPDATE: 9-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0300

Station Location: T-7 (Jay's Rental)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36428

Sample ID #: _____
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 9-24-10 (JD)
Time: 11:44am ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1407
Cumulative Sample Time (min): 703
Atmospheric Pressure (INS): 27.74
Temperature inside station unit (F): 59.6 Pump / 57 Box
Battery voltage reading (volts): 12.72

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 9-28-10 (JD)
Time: 12:50pm ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 0FLO
Cumulative Sample Time (min): 6530
Atmospheric Pressure (INS): 27.42
Temperature inside station unit (F): 78.4 Pump / 70 Box
Battery voltage reading (volts): 12.46

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric pressure (INS): _____
Temperature inside station unit (F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36428****Date Printed: Wednesday, September 29, 2010 12:01 PM****Min Temp 48.2F****Max Temp 94.4F****TWA Temp 69.1F****Min Pressure 27.4 In-Hg****Max Pressure 27.8 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately -90.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Thu Sep 23 2010 12:19 PM			7:11
Sleep		Thu Sep 23 2010 12:27 PM			11:32:53
Prog (Run)	2000	Fri Sep 24 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Wed Sep 29 2010 12:00 AM			4:59
Sleep		Wed Sep 29 2010 12:05 AM			10:02:42
Hold		Wed Sep 29 2010 10:07 AM			5:21
Sleep		Wed Sep 29 2010 10:13 AM			1:44:38
Hold		Wed Sep 29 2010 11:57 AM			3:18+

Serial Number 36428

Sep 29, 2010

12:01 PM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 151d 4:56:44

Battery  - +

Flow Calibrate

Approx Correction
-90.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
48.2	94.4	69.1	62.1

Pressure (in-Hg)

27.41	27.82	27.59	28.03
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0310

Station Location: Field Blank
Field Technician: JA
Pump Type/Model: —
Pump Number: —
Sampling Period: 34

Sample ID #: —
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 10-3-10
Time: 1:26 PM

Timer Beginning Date/Time: 10-4-10/12:00AM
Beginning Flow Rate (L/min): —
Pump Programmed (Yes / No): —
Bios Calibration Within 10 mL (Yes / No): —

PUMP RETRIEVAL DAY

Date: —
Time: —

Timer Ending Date/Time: —
Ending Flow Rate (L/min): —
Total Sample Volume (L): —
Total Sample Time (min): —
Atmospheric Pressure (INS): —
Temperature inside station unit (°F): —

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: JADATE: 10-3-10

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SUMMARY

Station Location: T-1 (Tony's Rental)

Field Technician: Od

Pump Type/Model: **SKC AirChek 2000**

Pump Number: 36423

Sampling Period: 34

Timer Beginning Date/Time: 10-4-10/12:00AM

Date: 10-3-10

Beginning Flow Rate (L/min):

Time: 1:35 PM

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No) Yes

Timer Ending Date/Time: 10-8-10/12:00AM

Date: 10/11/10

Ending Flow Rate (L/min):

Time: 1638

Total Sample Volume (L):

Total Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE:

DATE:

10/11/10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0302

Station Location: T-1 (Tony's Rental)
Field Technician: AG
Pump Type/Model: SKC AirChek 2000
Pump Number: 36423

Sample ID #:
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 10-4-10 (99)
Time: 2:22 PM ()
PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1724
Cumulative Sample Time (min): 861
Atmospheric pressure (mm Hg): 27.65
Temperature inside station unit (°F): 64.3 pump / 59.0 air
Battery voltage reading (volts): 12.78

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()
PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()
PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()
PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()
PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36423****Date Printed: Tuesday, October 12, 2010 8:50 AM****Min Temp 50.3F****Max Temp 69.1F****TWA Temp 58.4F****Min Pressure 27.6 In-Hg****Max Pressure 28.1 In-Hg****TWA Pressure 27.8 In-Hg****Flow Correction Approximately -70.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Sun Oct 3 2010 1:14 PM			6:14
Sleep		Sun Oct 3 2010 1:21 PM			10:38:55
Prog (Run)	2000	Mon Oct 4 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sat Oct 9 2010 12:00 AM			4:59
Sleep		Sat Oct 9 2010 12:05 AM			1d 23:54:59
Hold		Mon Oct 11 2010 12:00 AM			4:58
Sleep		Mon Oct 11 2010 12:04 AM			16:31:58
Hold		Mon Oct 11 2010 4:36 PM			5:36
Sleep		Mon Oct 11 2010 4:42 PM			16:05:49
Hold		Tue Oct 12 2010 8:48 AM			1:39+

Serial Number 36423

Oct 12, 2010

8:51 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 88d 23:50:36

Battery  - +

Flow Calibrate

Approx Correction
-70.0 ml/min

Down Reset Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
50.3	69.1	58.4	35.4

Pressure (in-Hg)

27.63	28.11	27.83	28.31
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SUMMARY

Station Location: T-2 (Fire Station)

Field Technician:

Pump Type/Model: **SKC AirChek 2000**

Pump Number: 36424

Sampling Period: 34

Timer Beginning Date/Time: 10-4-10/12:00 AM

Date: 10-3-10

Beginning Flow Rate (L/min): 2

Time: 1:36 PM

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No) Yes

Timer Ending Date/Time: 10-8-10 / 12:00 AM

Date: 10/11/10

Ending Flow Rate (L/min): 2.3

Time: 1628

Total Sample Volume (L): 0.10

Total Sample Time (min): 7200

Atmospheric Pressure (INS) 28.52

Temperature inside station unit (°F): 66.7° / 74°

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE:

DATE:

10/11/10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA &
ADDITIONAL DAILY CHECK RECORDS

TA-0303

Station Location: T-2 (Fire Station)

Sample ID #:

Field Technician: JP

Filter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Pump Number: 36424

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 10-4-10 (JP)

Time: 2:16 PM ()

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1711

Cumulative Sample Time (min): 855

Atmospheric Pressure (INS): 28.00

Temperature inside station unit (°F): 80.2 pump/16.7 Box

Battery voltage reading (volts): 12.70

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36424****Date Printed: Tuesday, October 12, 2010 8:47 AM****Min Temp 57.1F****Max Temp 94.2F****TWA Temp 71.8F****Min Pressure 27.9 In-Hg****Max Pressure 28.6 In-Hg****TWA Pressure 28.1 In-Hg****Flow Correction Approximately +10.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Sun Oct 3 2010 1:12 PM			6:19
Sleep		Sun Oct 3 2010 1:19 PM			10:40:52
Prog (Run)	2000	Mon Oct 4 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sat Oct 9 2010 12:00 AM			4:59
Sleep		Sat Oct 9 2010 12:05 AM			1d 23:55:00
Hold		Mon Oct 11 2010 12:00 AM			4:57
Sleep		Mon Oct 11 2010 12:04 AM			16:22:14
Hold		Mon Oct 11 2010 4:27 PM			5:51
Sleep		Mon Oct 11 2010 4:33 PM			16:12:50
Hold		Tue Oct 12 2010 8:45 AM			1:07+

Serial Number 36424

Oct 12, 2010

8:48 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
+10.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
<input type="text" value="57.1"/>	<input type="text" value="94.2"/>	<input type="text" value="71.8"/>	<input type="text" value="39.8"/>

Pressure (in-Hg)

<input type="text" value="27.91"/>	<input type="text" value="28.58"/>	<input type="text" value="28.14"/>	<input type="text" value="28.53"/>
------------------------------------	------------------------------------	------------------------------------	------------------------------------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0304

Station Location: T-3 (Water Treatment Station) Sample ID #: _____
Field Technician: 98 Filter Lot #: 19828-04
Pump Type/Model: SKC AirChek 2000
Pump Number: 36442

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 10-4-10 (98) Flow Rate (L/min): 2
Time: 2:30 PM () Cumulative Sample Volume (L): 1740
Cumulative Sample Time (min): 870
Atmospheric Pressure (INS): 27.93
Temperature inside station unit (°F): 71.8 Pump / 64.60 x
Battery voltage reading (volts): 12.72

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36442****Date Printed: Tuesday, October 12, 2010 8:43 AM****Min Temp 54.7F****Max Temp 83.3F****TWA Temp 64.0F****Min Pressure 27.9 In-Hg****Max Pressure 28.5 In-Hg****TWA Pressure 28.1 In-Hg****Flow Correction Approximately -50.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Sun Oct 3 2010 1:11 PM			5:36
Sleep		Sun Oct 3 2010 1:17 PM			10:42:57
Prog (Run)	2000	Mon Oct 4 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sat Oct 9 2010 12:00 AM			4:59
Sleep		Sat Oct 9 2010 12:05 AM			1d 23:55:00
Hold		Mon Oct 11 2010 12:00 AM			4:57
Sleep		Mon Oct 11 2010 12:04 AM			16:43:49
Hold		Mon Oct 11 2010 4:48 PM			5:44
Sleep		Mon Oct 11 2010 4:54 PM			15:41:35
Hold		Tue Oct 12 2010 8:36 AM			4:58
Sleep		Tue Oct 12 2010 8:41 AM			0:17
Hold		Tue Oct 12 2010 8:41 AM			1:39+

Serial Number 36442

Oct 12, 2010
8:45 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
-50.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
54.7	83.3	64.0	38.7

Pressure (in-Hg)

27.87	28.45	28.06	28.33
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET

TA-0305

Station Location: **T-4 (Troy Info Center)**
Field Technician: JD
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36446**
Sampling Period: 34

Sample ID #: _____
Filter Lot #: **19828-04**
Sample Type: **TEM**
Sample Parent ID #: _____

PUMP SETUP DAY

Date: 10-3-10
Time: 1:38 pm

Timer Beginning Date/Time: 10-4-10/12:00AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10/11/10
Time: 1713

Timer Ending Date/Time: 10-8-10/12:00AM
Ending Flow Rate (L/min): 2.0
Total Sample Volume (L): 0FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 28.02
Temperature inside station unit (°F): 62.8°/62°

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: JDDATE: 10/11/10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0305

Station Location: T-4 (Troy Info Center)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36446

Sample ID #: _____
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 10-4-10 (99) Flow Rate (L/min): 2
Time: 2:35pm () Cumulative Sample Volume (L): 1750
Cumulative Sample Time (min): 874
Atmospheric Pressure (INS) 27.52
Temperature inside station unit (°F): 73.2 pump / 64 box
Battery voltage reading (volts): 12.76

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36446****Date Printed: Tuesday, October 12, 2010 8:39 AM****Min Temp 55.4F****Max Temp 88.6F****TWA Temp 65.2F****Min Pressure 27.4 In-Hg****Max Pressure 28.1 In-Hg****TWA Pressure 27.7 In-Hg****Flow Correction Approximately -20.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Hold		Sun Oct 3 2010 1:05 PM			0:53
Prog (Hold)		Sun Oct 3 2010 1:06 PM			5:21
Sleep		Sun Oct 3 2010 1:11 PM			10:48:04
Prog (Run)	2000	Mon Oct 4 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sat Oct 9 2010 12:00 AM			4:59
Sleep		Sat Oct 9 2010 12:05 AM			1d 23:54:59
Hold		Mon Oct 11 2010 12:00 AM			4:58
Sleep		Mon Oct 11 2010 12:04 AM			17:05:05
Hold		Mon Oct 11 2010 5:10 PM			5:38
Sleep		Mon Oct 11 2010 5:15 PM			15:19:58
Hold		Tue Oct 12 2010 8:35 AM			3:21+

Serial Number 36446

Oct 12, 2010
8:39 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 158d 8:43:28

Battery  - +

Flow Calibrate

Approx Correction
-20.0 ml/min

Down Reset Up

☐ Multiple Pumps

Pump Controls

Run Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
55.4	88.6	65.2	39.3

Pressure (in-Hg)

27.42	28.07	27.66	28.14
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0306

Station Location: T-4QC (Troy Info Center)

Sample ID #: _____

Field Technician: OGFilter Lot #: 19828-04Pump Type/Model: SKC AirChek 2000Sample Type: TEMPump Number: 36444

Sample Parent ID #

Sampling Period: 34

TA-0305

PUMP SETUP DAY

Date: 10-3-10Time: 1:39 pmTimer Beginning Date/Time: 10-4-10/12:00amBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): YesBios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10/11/10Time: 1710Timer Ending Date/Time: 10-8-10/12:00amEnding Flow Rate (L/min): 2.0Total Sample Volume (L): 0FLOTotal Sample Time (min): 7200Atmospheric Pressure (INS): 28.08Temperature inside station unit (°F): 64°/62°

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE:



DATE:

10/11/10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA &
ADDITIONAL DAILY CHECK RECORDS

TA-0306

Station Location: T-4QC (Troy Info Center) Sample ID #: _____
Field Technician: 09 Filter Lot #: 19828-04
Pump Type/Model: SKC AirChek 2000
Pump Number: 36444

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 10-4-0 (99) Flow Rate (L/min): 2
Time: 2:37 pm () Cumulative Sample Volume (L): 1754
Cumulative Sample Time (min): 876
Atmospheric Pressure (INS): 27.53
Temperature inside station unit (°F): 83.4 pump / 64.60x
Battery voltage reading (volts): 12.72

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36444****Date Printed: Tuesday, October 12, 2010 8:57 AM****Min Temp 59.0F****Max Temp 97.3F****TWA Temp 75.3F****Min Pressure 27.4 In-Hg****Max Pressure 28.0 In-Hg****TWA Pressure 27.7 In-Hg****Flow Correction Approximately +20.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Sun Oct 3 2010 1:20 PM			5:05
Sleep		Sun Oct 3 2010 1:25 PM			10:34:08
Prog (Run)	2000	Mon Oct 4 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sat Oct 9 2010 12:00 AM			4:59
Sleep		Sat Oct 9 2010 12:05 AM			1d 23:54:59
Hold		Mon Oct 11 2010 12:00 AM			4:58
Sleep		Mon Oct 11 2010 12:04 AM			17:02:48
Hold		Mon Oct 11 2010 5:07 PM			5:22
Sleep		Mon Oct 11 2010 5:13 PM			15:36:11
Hold		Tue Oct 12 2010 8:49 AM			7:41+

Serial Number 36444

Oct 12, 2010

8:58 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 156d 10:34:10

Battery  - +

Flow Calibrate

Approx Correction
+20.0 ml/min

Down Reset Up

☐ Multiple Pumps

Pump Controls

Run Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
59.0	97.3	75.3	42.2

Pressure (in-Hg)

27.45	28.04	27.66	28.18
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET

TA-0307

Station Location: T-5 (State Shop)
Field Technician: AD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36427
Sampling Period: 34

Sample ID #: _____
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 10-3-10 Timer Beginning Date/Time: 10-4-10 / 12:00AM
Time: 1:40pm Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 4/11 Timer Ending Date/Time: 10-8-10 / 12:00AM
Time: 10/11/10 Ending Flow Rate (L/min): 2.0
Total Sample Volume (L): 0FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 28.28
Temperature inside station unit (°F): 59.9°/60°

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: MichaelDATE: 10/11/10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0307

Station Location: T-5 (State Shop)
Field Technician: JO
Pump Type/Model: SKC AirChek 2000
Pump Number: 36427

Sample ID #: _____
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): NO
Date: 10-4-10 (99) Flow Rate (L/min): 2
Time: 2:03pm () Cumulative Sample Volume (L): 1687
Cumulative Sample Time (min): 843
Atmospheric Pressure (INS): 27.84
Temperature inside station unit (°F): 70.6 pump / 61 box
Battery voltage reading (volts): 12.74

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36427****Date Printed: Tuesday, October 12, 2010 9:00 AM****Min Temp 56.1F****Max Temp 86.0F****TWA Temp 65.3F****Min Pressure 27.8 In-Hg****Max Pressure 28.3 In-Hg****TWA Pressure 28.0 In-Hg****Flow Correction Approximately -20.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Sun Oct 3 2010 1:09 PM			5:40
Sleep		Sun Oct 3 2010 1:15 PM			10:44:57
Prog (Run)	2000	Mon Oct 4 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Sat Oct 9 2010 12:00 AM			4:59
Sleep		Sat Oct 9 2010 12:05 AM			1d 23:54:59
Hold		Mon Oct 11 2010 12:00 AM			4:58
Sleep		Mon Oct 11 2010 12:04 AM			16:06:17
Hold		Mon Oct 11 2010 4:11 PM			6:11
Sleep		Mon Oct 11 2010 4:17 PM			16:34:24
Hold		Tue Oct 12 2010 8:51 AM			4:57
Sleep		Tue Oct 12 2010 8:56 AM			1:24
Hold		Tue Oct 12 2010 8:58 AM			1:49+

Serial Number 36427

Oct 12, 2010

9:00 AM

Pump Real-Time Monitor

Pump Status **Hold**Flow **2000**Volume **14400.13**Run Time **5d 0:00:04**Total Time **166d 4:20:37**Battery  - +

Flow Calibrate

Approx Correction
-20.0 ml/min**Down** **Reset** **Up**☐ Multiple Pumps

Pump Controls

Run**Hold****Set
Flow****Reset Volume, Temp
Time and Pressure**

Temperatures (F)

Min	Max	TWA	Ambient
56.1	86.0	65.3	39.3

Pressure (in-Hg)

27.77	28.31	27.99	28.40
--------------	--------------	--------------	--------------

Units Selection

☒ **Fahrenheit** ☐ Celsius☒ **in-Hg** ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) **15**Number of Tries **10****Set Fault Options**

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0308

Station Location: T-6 (Water Tower)
Field Technician: JA
Pump Type/Model: SKC AirChek 2000
Pump Number: 36422
Sampling Period: 34

Sample ID #: _____
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 10-3-10
Time: 1:42pm

Timer Beginning Date/Time: 10-4-10/12:00AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): YES
Bios Calibration Within 10 mL (Yes / No): YES

PUMP RETRIEVAL DAY

Date: 10/11/10
Time: 1604

Timer Ending Date/Time: 10-8-10/12:00AM
Ending Flow Rate (L/min): 2.0
Total Sample Volume (L): 0 FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.98
Temperature inside station unit (°F): 59.7°/61°

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE:



DATE:

10/11/10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0308

Station Location: **T-6 (Water Tower)**
Field Technician:
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36422**

Sample ID #:
Filter Lot #: **19828-04**

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 10-4-10 () Flow Rate (L/min): 2
Time: 1:59pm () Cumulative Sample Volume (L): 1678
Cumulative Sample Time (min): 838
Atmospheric Pressure (INS): 27.49
Temperature inside station unit (°F): 76.8 Pump/Gl. Box
Battery voltage reading (volts): 12.72

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History**SN 36422****Date Printed: Tuesday, October 12, 2010 9:03 AM****Min Temp 53.6F****Max Temp 90.7F****TWA Temp 70.3F****Min Pressure 27.4 In-Hg****Max Pressure 27.9 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately -60.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Sun Oct 3 2010 1:09 PM			5:10
Sleep		Sun Oct 3 2010 1:14 PM			10:45:44
Prog (Run)	2000	Mon Oct 4 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sat Oct 9 2010 12:00 AM			4:59
Sleep		Sat Oct 9 2010 12:05 AM			1d 23:54:59
Hold		Mon Oct 11 2010 12:00 AM			4:58
Sleep		Mon Oct 11 2010 12:04 AM			15:57:29
Hold		Mon Oct 11 2010 4:02 PM			5:59
Sleep		Mon Oct 11 2010 4:08 PM			16:50:23
Hold		Tue Oct 12 2010 8:58 AM			4:11+

Serial Number 36422

Oct 12, 2010

9:03 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery

Flow Calibrate

Approx Correction
-60.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
53.6	90.7	70.3	36.8

Pressure (in-Hg)

27.38	27.92	27.60	28.21
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0309

Station Location: T-7 (Jay's Rental)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36428
Sampling Period: 34

Sample ID #: _____
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 10-3-10
Time: 1:43 PM

Timer Beginning Date/Time: 10-4-10/12:00AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): yes
Bios Calibration Within 10 mL (Yes / No): yes

PUMP RETRIEVAL DAY

Date: 10/11/10
Time: 15:50 PM

Timer Ending Date/Time: 10-11-10/12:00AM
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FLD
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.92
Temperature inside station unit (°F): 64°

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE:



DATE:

10/11/10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA &
ADDITIONAL DAILY CHECK RECORDS

TA-0309

Station Location: T-7 (Jay's Rental)
Field Technician:
Pump Type/Model: SKC AirChek 2000
Pump Number: 36428

Sample ID #:
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 10-4-10 (98) Flow Rate (L/min): 2
Time: 1:53 PM () Cumulative Sample Volume (L): 1666
Cumulative Sample Time (min): 833
Atmospheric Pressure (INS) 27.40
Temperature inside station unit (°F): 74.6 pump / 66 box
Battery voltage reading (volts): 12.77

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History**SN 36428****Date Printed: Tuesday, October 12, 2010 9:06 AM****Min Temp 55.4F****Max Temp 87.9F****TWA Temp 71.4F****Min Pressure 27.3 In-Hg****Max Pressure 27.9 In-Hg****TWA Pressure 27.5 In-Hg****Flow Correction Approximately -90.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Sun Oct 3 2010 1:07 PM			5:29
Sleep		Sun Oct 3 2010 1:13 PM			10:46:39
Prog (Run)	2000	Mon Oct 4 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sat Oct 9 2010 12:00 AM			4:59
Sleep		Sat Oct 9 2010 12:05 AM			1d 23:55:00
Hold		Mon Oct 11 2010 12:00 AM			4:57
Sleep		Mon Oct 11 2010 12:04 AM			15:43:15
Hold		Mon Oct 11 2010 3:48 PM			8:32
Sleep		Mon Oct 11 2010 3:56 PM			17:04:46
Hold		Tue Oct 12 2010 9:01 AM			5:29+

Serial Number 36428

Oct 12, 2010

9:07 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
-90.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
55.4	87.9	71.4	38.6

Pressure (in-Hg)

27.33	27.90	27.53	28.31
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0319

Station Location: Field Blank
Field Technician: JS
Pump Type/Model:
Pump Number:
Sampling Period 35

Sample ID #:
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #:

PUMP SETUP DAY

Date: 10-13-10
Time: 9:17 AM

Timer Beginning Date/Time: 10-14-10/12:00 AM
Beginning Flow Rate (L/min):
Pump Programmed (Yes / No):
Bios Calibration Within 10 mL (Yes / No):

PUMP RETRIEVAL DAY

Date:
Time:

Timer Ending Date/Time:
Ending Flow Rate (L/min):
Total Sample Volume (L):
Total Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: DATE: 10-13-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0311

Station Location: T-1 (Tony's Rental)

Sample ID #: _____

Field Technician: JDFilter Lot #: 19828-04Pump Type/Model: SKC AirChek 2000Sample Type: TEMPump Number: 36423

Sample Parent ID #: _____

Sampling Period: 35

PUMP SETUP DAY

Date: 10-13-10Time: 9:18 AMTimer Beginning Date/Time: 10-14-10/12:00 AMBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): YesBios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10-19-10Time: 1454Timer Ending Date/Time: 10-19-10/12:00 AMEnding Flow Rate (L/min): 2Total Sample Volume (L): 0.60Total Sample Time (min): 7200Atmospheric Pressure (INS): 28.00Temperature inside station unit (°F): 43.0°F

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: [Signature]DATE: 10-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0311

Station Location: T-1 (Tony's Rental)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Pump Number: 36423

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric pressure (mm Hg): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS) _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS) _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS) _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: _____ ()

Time: _____ ()

PUMP FAULT (Yes / No): _____

Flow Rate (L/min): _____

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS) _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

SKC Pump History**SN 36423****Date Printed: Tuesday, October 19, 2010 3:32 PM****Min Temp 37.9F****Max Temp 60.7F****TWA Temp 46.4F****Min Pressure 27.5 In-Hg****Max Pressure 28.1 In-Hg****TWA Pressure 27.8 In-Hg****Flow Correction Approximately -130.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Oct 13 2010 9:38 AM			5:11
Sleep		Wed Oct 13 2010 9:43 AM			14:16:28
Prog (Run)	2000	Thu Oct 14 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Tue Oct 19 2010 12:00 AM			4:59
Sleep		Tue Oct 19 2010 12:05 AM			14:46:58
Hold		Tue Oct 19 2010 2:51 PM			5:06
Sleep		Tue Oct 19 2010 2:57 PM			32:25
Hold		Tue Oct 19 2010 3:29 PM			2:31+

Serial Number 36423

Oct 19, 2010

3:33 PM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.10

Run Time 5d 0:00:03

Total Time 94d 0:13:28

Battery  - +

Flow Calibrate

Approx Correction
-130.0 ml/min

Down Reset Up

☐ Multiple Pumps

Pump Controls

Run Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
37.9	60.7	46.4	57.6

Pressure (in-Hg)

27.55	28.11	27.85	27.99
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0312

Station Location: T-2 (Fire Station)
Field Technician: JP
Pump Type/Model: SKC AirChek 2000
Pump Number: 36424
Sampling Period: 35

Sample ID #: _____
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #: _____

PUMP SETUP DAY

Date: 10-13-10 Timer Beginning Date/Time: 10-14-10/12:00am
Time: 9:19am Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10-19-10 Timer Ending Date/Time: 10-19-10/12:00am
Time: 1438 Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FLD
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 28.28
Temperature inside station unit (°F): 51.7°/

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: JPDATE: 10-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-0312

Station Location: T-2 (Fire Station)
Field Technician:
Pump Type/Model: SKC AirChek 2000
Pump Number: 36424

Sample ID #:
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No):
Date: () Flow Rate (L/min):
Time: () Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History**SN 36424****Date Printed: Tuesday, October 19, 2010 3:34 PM****Min Temp 40.8F****Max Temp 82.5F****TWA Temp 57.1F****Min Pressure 27.8 In-Hg****Max Pressure 28.4 In-Hg****TWA Pressure 28.1 In-Hg****Flow Correction Approximately -10.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Oct 13 2010 9:37 AM			5:07
Sleep		Wed Oct 13 2010 9:42 AM			14:17:12
Prog (Run)	2000	Thu Oct 14 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Oct 19 2010 12:00 AM			4:59
Sleep		Tue Oct 19 2010 12:05 AM			14:31:51
Hold		Tue Oct 19 2010 2:36 PM			5:08
Sleep		Tue Oct 19 2010 2:42 PM			50:21
Hold		Tue Oct 19 2010 3:32 PM			1:39+

Serial Number 36424

Oct 19, 2010
3:35 PM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 155d 16:47:38

Battery  - +

Flow Calibrate

Approx Correction
-10.0 ml/min

Down Reset Up

☐ Multiple Pumps

Pump Controls

Run Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
40.8	82.5	57.1	69.7

Pressure (in-Hg)

27.83	28.36	28.12	28.44
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0313

Station Location: T-3 (Water Treatment Station) Sample ID #: _____
Field Technician: JP Filter Lot #: 19828-04
Pump Type/Model: SKC AirChek 2000 Sample Type: TEM
Pump Number: 36442 Sample Parent ID #: _____
Sampling Period: 35

PUMP SETUP DAY

Date: 10-13-10 Timer Beginning Date/Time: 10-14-10/12:00AM
Time: 9:20AM Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10-19-10 Timer Ending Date/Time: 10-19-10/12:00AM
Time: 1505 Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FLD
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 28.13
Temperature inside station unit (°F): 48.5°

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: JPDATE: 10-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0313

Station Location: T-3 (Water Treatment Station)
Field Technician: JS
Pump Type/Model: SKC AirChek 2000
Pump Number: 36442

Sample ID #: _____
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials) _____
Date: _____ ()
Time: _____ ()
PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____
Date: _____ ()
Time: _____ ()
PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____
Date: _____ ()
Time: _____ ()
PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____
Date: _____ ()
Time: _____ ()
PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____
Date: _____ ()
Time: _____ ()
PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36442****Date Printed: Tuesday, October 19, 2010 3:36 PM****Min Temp 39.0F****Max Temp 74.2F****TWA Temp 51.9F****Min Pressure 27.8 In-Hg****Max Pressure 28.2 In-Hg****TWA Pressure 28.0 In-Hg****Flow Correction Approximately -70.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Oct 13 2010 9:36 AM			5:07
Sleep		Wed Oct 13 2010 9:41 AM			14:18:18
Prog (Run)	2000	Thu Oct 14 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Oct 19 2010 12:00 AM			4:59
Sleep		Tue Oct 19 2010 12:05 AM			14:56:16
Hold		Tue Oct 19 2010 3:01 PM			5:06
Sleep		Tue Oct 19 2010 3:06 PM			27:19
Hold		Tue Oct 19 2010 3:33 PM			2:18+

Serial Number 36442

Oct 19, 2010
3:37 PM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 125d 9:30:01

Battery  - +

Flow Calibrate

Approx Correction
-70.0 ml/min

Down Reset Up

☐ Multiple Pumps

Pump Controls

Run Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
39.0	74.2	51.9	62.7

Pressure (in-Hg)

27.79	28.20	28.03	28.22
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0314

Station Location: T-4 (Troy Info Center)

Sample ID #: _____

Field Technician: JDFilter Lot #: 19828-04Pump Type/Model: SKC AirChek 2000Sample Type: TEMPump Number: 36446

Sample Parent ID #: _____

Sampling Period: 35

PUMP SETUP DAY

Date: 10-13-10Time: 9:21 AMTimer Beginning Date/Time: 10-14-10/12:00 AMBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): YesBios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 10-19-10Time: 11:23Timer Ending Date/Time: 10-19-10/12:00 AMEnding Flow Rate (L/min): 2Total Sample Volume (L): 0F10Total Sample Time (min): 7200Atmospheric Pressure (INS) 27.86Temperature inside station unit (°F): 46.0 PUMP/38 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: JDDATE: 10-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA &
ADDITIONAL DAILY CHECK RECORDS

TA-0314

Station Location: T-4 (Troy Info Center)
Field Technician: JP
Pump Type/Model: SKC AirChek 2000
Pump Number: 36446

Sample ID #: _____
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36446****Date Printed: Tuesday, October 19, 2010 3:30 PM****Min Temp 41.7F****Max Temp 76.9F****TWA Temp 54.2F****Min Pressure 27.4 In-Hg****Max Pressure 28.0 In-Hg****TWA Pressure 27.7 In-Hg****Flow Correction Approximately -60.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Oct 13 2010 9:35 AM			5:08
Sleep		Wed Oct 13 2010 9:40 AM			14:19:47
Prog (Run)	2000	Thu Oct 14 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Oct 19 2010 12:00 AM			4:59
Sleep		Tue Oct 19 2010 12:05 AM			11:18:34
Hold		Tue Oct 19 2010 11:23 AM			5:30
Sleep		Tue Oct 19 2010 11:29 AM			2:44:37
Hold		Tue Oct 19 2010 2:13 PM			1:16:18+

Serial Number 36446

Oct 19, 2010

3:30 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery  - +

Flow Calibrate

Approx Correction
-60.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
<input type="text" value="41.7"/>	<input type="text" value="76.9"/>	<input type="text" value="54.2"/>	<input type="text" value="58.3"/>

Pressure (in-Hg)

<input type="text" value="27.42"/>	<input type="text" value="28.00"/>	<input type="text" value="27.67"/>	<input type="text" value="27.80"/>
------------------------------------	------------------------------------	------------------------------------	------------------------------------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0315

Station Location: T-4QC (Troy Info Center)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36444

Sample Parent ID #:

Sampling Period: 35

TA-0314

PUMP SETUP DAY

Date: 10-13-10Time: 9:22 AMTimer Beginning Date/Time: 10-14-10/12:00 AMBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): YesBios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 10-19-10Time: 11:25Timer Ending Date/Time: 10-19-10/12:00 AMEnding Flow Rate (L/min): 2Total Sample Volume (L): 0 FL0Total Sample Time (min): 7200Atmospheric Pressure (INS) 27.88Temperature inside station unit (°F): 51.9 Pump/38 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: JDDATE: 10-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0315

Station Location: T-4QC (Troy Info Center)
Field Technician: JS
Pump Type/Model: SKC AirChek 2000
Pump Number: 36444

Sample ID #: _____
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () _____ Flow Rate (L/min): _____
Time: _____ () _____ Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () _____ Flow Rate (L/min): _____
Time: _____ () _____ Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () _____ Flow Rate (L/min): _____
Time: _____ () _____ Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () _____ Flow Rate (L/min): _____
Time: _____ () _____ Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () _____ Flow Rate (L/min): _____
Time: _____ () _____ Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36444****Date Printed: Tuesday, October 19, 2010 3:44 PM****Min Temp 45.3F****Max Temp 85.6F****TWA Temp 62.2F****Min Pressure 27.4 In-Hg****Max Pressure 28.0 In-Hg****TWA Pressure 27.6 In-Hg****No Flow Correction**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Oct 13 2010 9:39 AM			5:06
Sleep		Wed Oct 13 2010 9:44 AM			14:15:23
Prog (Run)	2000	Thu Oct 14 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Oct 19 2010 12:00 AM			4:59
Sleep		Tue Oct 19 2010 12:05 AM			11:20:18
Hold		Tue Oct 19 2010 11:25 AM			5:22
Sleep		Tue Oct 19 2010 11:30 AM			4:12:09
Hold		Tue Oct 19 2010 3:42 PM			2:10+

Serial Number 36444

Oct 19, 2010

3:45 PM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 161d 11:03:07

Battery  - +

Flow Calibrate

Approx Correction
0.0 ml/min

Down Reset Up

☐ Multiple Pumps

Pump Controls

Run Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
45.3	85.6	62.2	62.5

Pressure (in-Hg)

27.37	27.97	27.64	27.92
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0316

Station Location: T-5 (State Shop)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36427

Sample Parent ID #: —

Sampling Period: 35

PUMP SETUP DAY

Date: 10-13-10

Time: 9:23 AM

Timer Beginning Date/Time: 10-14-10/12:00 AM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10-19-10

Time: 1408

Timer Ending Date/Time: 10-19-10/12:00 AM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0.10

Total Sample Time (min): 7200

Atmospheric Pressure (INS): 28.12

Temperature inside station unit (°F): 48.6°

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: Ing Jordan

DATE: 10-19-10

SKC Pump History**SN 36427****Date Printed: Tuesday, October 19, 2010 3:43 PM****Min Temp 39.8F****Max Temp 73.6F****TWA Temp 52.9F****Min Pressure 27.8 In-Hg****Max Pressure 28.2 In-Hg****TWA Pressure 28.0 In-Hg****Flow Correction Approximately +10.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Oct 13 2010 9:39 AM			5:06
Sleep		Wed Oct 13 2010 9:44 AM			14:15:43
Prog (Run)	2000	Thu Oct 14 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Oct 19 2010 12:00 AM			4:59
Sleep		Tue Oct 19 2010 12:05 AM			13:59:01
Hold		Tue Oct 19 2010 2:04 PM			5:12
Sleep		Tue Oct 19 2010 2:09 PM			1:30:26
Hold		Tue Oct 19 2010 3:39 PM			3:20+

Serial Number 36427

Oct 19, 2010

3:42 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
+10.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
39.8	73.6	52.9	58.3

Pressure (in-Hg)

27.77	28.23	28.02	28.11
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0317

Station Location: T-6 (Water Tower)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36422

Sample Parent ID #:

Sampling Period: 35

PUMP SETUP DAY

Date: 10-13-10

Timer Beginning Date/Time: 10-14-10/12:00AM

Time: 9:24 AM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10-19-10

Timer Ending Date/Time: 10-19-10/12:00AM

Time: 1405

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0.20

Total Sample Time (min): 7200

Atmospheric Pressure (INS): 27.75

Temperature inside station unit (°F): 50.2°

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: JD

DATE: 10-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET

ADDITIONAL DAILY CHECK RECORDS

TA-0317

Station Location: T-6 (Water Tower)
Field Technician: DD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36422

Sample ID #: _____
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () _____ Flow Rate (L/min): _____
Time: _____ () _____ Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () _____ Flow Rate (L/min): _____
Time: _____ () _____ Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () _____ Flow Rate (L/min): _____
Time: _____ () _____ Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () _____ Flow Rate (L/min): _____
Time: _____ () _____ Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () _____ Flow Rate (L/min): _____
Time: _____ () _____ Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36422****Date Printed: Tuesday, October 19, 2010 3:41 PM****Min Temp 39.9F****Max Temp 78.3F****TWA Temp 55.8F****Min Pressure 27.3 In-Hg****Max Pressure 27.9 In-Hg****TWA Pressure 27.6 In-Hg****Flow Correction Approximately -60.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Oct 13 2010 9:40 AM			5:10
Sleep		Wed Oct 13 2010 9:45 AM			14:14:05
Prog (Run)	2000	Thu Oct 14 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Oct 19 2010 12:00 AM			4:59
Sleep		Tue Oct 19 2010 12:05 AM			13:54:39
Hold		Tue Oct 19 2010 1:59 PM			5:09
Sleep		Tue Oct 19 2010 2:04 PM			1:33:21
Hold		Tue Oct 19 2010 3:38 PM			2:50+

Serial Number 36422

Oct 19, 2010

3:41 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
-60.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
39.9	78.3	55.8	55.9

Pressure (in-Hg)

27.31	27.92	27.59	27.93
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0318

Station Location: T-7 (Jay's Rental)
Field Technician: AA
Pump Type/Model: SKC AirChek 2000
Pump Number: 36428
Sampling Period: 35

Sample ID #: _____
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 10-13-10 Timer Beginning Date/Time: 10-14-10/12:00AM
Time: 9:25AM Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10-19-10 Timer Ending Date/Time: 10-19-10/12:00AM
Time: 11:10AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FL0
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.89
Temperature inside station unit (°F): 50.9 pump / 38.00x

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: Jay JordanDATE: 10-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0318

Station Location: T-7 (Jay's Rental)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Pump Number: 36428

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ()

Time: ()

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36428****Date Printed: Tuesday, October 19, 2010 3:39 PM****Min Temp 42.3F****Max Temp 78.8F****TWA Temp 60.0F****Min Pressure 27.2 In-Hg****Max Pressure 27.9 In-Hg****TWA Pressure 27.5 In-Hg****Flow Correction Approximately -70.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Wed Oct 13 2010 9:41 AM			5:07
Sleep		Wed Oct 13 2010 9:46 AM			14:13:33
Prog (Run)	2000	Thu Oct 14 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Oct 19 2010 12:00 AM			4:59
Sleep		Tue Oct 19 2010 12:05 AM			11:11:56
Hold		Tue Oct 19 2010 11:16 AM			5:08
Sleep		Tue Oct 19 2010 11:22 AM			4:13:50
Hold		Tue Oct 19 2010 3:35 PM			3:05+

Serial Number 36428

Oct 19, 2010

3:39 PM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery

Flow Calibrate

Approx Correction
-70.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
<input type="text" value="42.3"/>	<input type="text" value="78.8"/>	<input type="text" value="60.0"/>	<input type="text" value="57.5"/>

Pressure (in-Hg)

<input type="text" value="27.25"/>	<input type="text" value="27.90"/>	<input type="text" value="27.53"/>	<input type="text" value="28.01"/>
------------------------------------	------------------------------------	------------------------------------	------------------------------------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0320

Station Location: Field Blank
Field Technician: JA
Pump Type/Model: —
Pump Number: —
Sampling Period: 36

Sample ID #: —
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 10-22-10
Time: 11:55 AM

Timer Beginning Date/Time: 10-24-10/12:00AM
Beginning Flow Rate (L/min): —
Pump Programmed (Yes / No): —
Bios Calibration Within 10 mL (Yes / No): —

PUMP RETRIEVAL DAY

Date: —
Time: —

Timer Ending Date/Time: —
Ending Flow Rate (L/min): —
Total Sample Volume (L): —
Total Sample Time (min): —
Atmospheric Pressure (INS): —
Temperature inside station unit (°F): —

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

SIGNATURE: Jesus JordanDATE: 10-22-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET

TA-0321

Station Location: T-1 (Tony's Rental)

Sample ID #: _____

Field Technician: JDFilter Lot #: 19828-04Pump Type/Model: SKC AirChek 2000Sample Type: TEMPump Number: 36423

Sample Parent ID #: _____

Sampling Period: 36

PUMP SETUP DAY

Date: 10-22-10 Timer Beginning Date/Time: 10-24-10/12:00AM
Time: 12:00PM Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10-29-10 Timer Ending Date/Time: 10-29-10/12:00AM
Time: 9:31AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.86
Temperature inside station unit (°F): 42.6 PUMP/40BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Scattered rain throughout sample
period. JD

SIGNATURE: JDDATE: 10-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0321

Station Location: T-1 (Tony's Rental)

Sample ID #:

Field Technician: LDFilter Lot #: 19828-04Pump Type/Model: SKC AirChek 2000Pump Number: 36423

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 10-24-10 (LD)Flow Rate (L/min): 2Time: 12:07 PM ()Cumulative Sample Volume (L): 1454Cumulative Sample Time (min): 727Atmospheric pressure (mm Hg): 27.03Temperature inside station unit (°F): 50.6 pump / 46.8 xBattery voltage reading (volts): 12.78rain stopped

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 10-26-10 (LD)Flow Rate (L/min): 2Time: 9:49 AM ()Cumulative Sample Volume (L): 6938Cumulative Sample Time (min): 3469Atmospheric Pressure (INS): 27.43Temperature inside station unit (°F): 46.4 pump / 42.8 xBattery voltage reading (volts): 12.70

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36423****Date Printed: Friday, October 29, 2010 10:06 AM****Min Temp 39.2F****Max Temp 53.5F****TWA Temp 47.2F****Min Pressure 27.0 In-Hg****Max Pressure 28.0 In-Hg****TWA Pressure 27.5 In-Hg****Flow Correction Approximately -70.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Oct 22 2010 12:57 PM			5:43
Sleep		Fri Oct 22 2010 1:02 PM			1d 10:57:15
Prog (Run)	2000	Sun Oct 24 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Oct 29 2010 12:00 AM			4:59
Sleep		Fri Oct 29 2010 12:05 AM			9:26:15
Hold		Fri Oct 29 2010 9:31 AM			5:17
Sleep		Fri Oct 29 2010 9:36 AM			29:09
Hold		Fri Oct 29 2010 10:05 AM			0:18+

Serial Number 36423

Oct 29, 2010

10:07 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 99d 0:23:05

Battery  - +

Flow Calibrate

Approx Correction
-70.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
39.2	53.5	47.2	42.2

Pressure (in-Hg)

26.98	27.95	27.50	27.87
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0322

Station Location: T-2 (Fire Station)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36424
Sampling Period: 36

Sample ID #: _____
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #:

PUMP SETUP DAY

Date: 10-22-10
Time: 12:01 PM

Timer Beginning Date/Time: 10-24-10/12:00 AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10-29-10
Time: 9:25 AM

Timer Ending Date/Time: 10-29-10/12:00 AM
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 28.12
Temperature inside station unit (°F): 51.4 Pump/42.00x

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Scattered rain throughout sample
period.

SIGNATURE: JDDATE: 10-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-0322

Station Location: T-2 (Fire Station)

Sample ID #:

Field Technician: 92

Filter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Pump Number: 36424

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 10-24-10 (99)Flow Rate (L/min): 2Time: 12:02 PM ()Cumulative Sample Volume (L): 1443Cumulative Sample Time (min): 721Atmospheric Pressure (INS) 27.37Temperature inside station unit (°F): 62.6 pump / 51.8oxBattery voltage reading (volts): 12.73rain stopped

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 10-26-10 (99)Flow Rate (L/min): 2Time: 9:55 AM ()Cumulative Sample Volume (L): 6951Cumulative Sample Time (min): 3475Atmospheric Pressure (INS) 27.71Temperature inside station unit (°F): 55.9 pump / 44.8oxBattery voltage reading (volts): 12.58

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): _____

Date: _____ ()

Flow Rate (L/min): _____

Time: _____ ()

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS) _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): _____

Date: _____ ()

Flow Rate (L/min): _____

Time: _____ ()

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS) _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): _____

Date: _____ ()

Flow Rate (L/min): _____

Time: _____ ()

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS) _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

SKC Pump History**SN 36424****Date Printed: Friday, October 29, 2010 9:59 AM****Min Temp 44.7F****Max Temp 67.5F****TWA Temp 57.8F****Min Pressure 27.3 In-Hg****Max Pressure 28.3 In-Hg****TWA Pressure 27.8 In-Hg****Flow Correction Approximately +10.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Oct 22 2010 12:54 PM			6:44
Sleep		Fri Oct 22 2010 1:01 PM			1d 10:58:28
Prog (Run)	2000	Sun Oct 24 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Fri Oct 29 2010 12:00 AM			4:59
Sleep		Fri Oct 29 2010 12:05 AM			9:19:44
Hold		Fri Oct 29 2010 9:24 AM			5:15
Sleep		Fri Oct 29 2010 9:30 AM			25:53
Hold		Fri Oct 29 2010 9:55 AM			3:07+

Serial Number 36424

Oct 29, 2010
10:00 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 160d 16:54:41

Battery  - +

Flow Calibrate

Approx Correction
+10.0 ml/min

Down Reset Up

☐ Multiple Pumps

Pump Controls

Run Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
44.7	67.5	57.8	49.8

Pressure (in-Hg)

27.31	28.28	27.79	28.17
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0323

Station Location: T-3 (Water Treatment Station) Sample ID #: _____
Field Technician: [Signature] Filter Lot #: 19828-04
Pump Type/Model: SKC AirChek 2000 Sample Type: TEM
Pump Number: 36442 Sample Parent ID #: _____
Sampling Period: 36

PUMP SETUP DAY

Date: 10-22-10 Timer Beginning Date/Time: 10-24-10/12:00AM
Time: 12:02pm Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10-29-10 Timer Ending Date/Time: 10-29-10/12:00AM
Time: 9:40AM Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FL0
Total Sample Time (min): 7200
Atmospheric Pressure (INS): 27.93
Temperature inside station unit (°F): 46.2 Pump/H2BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Scattered rain throughout sample
period.

SIGNATURE: [Signature]DATE: 10-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-0323

Station Location: T-3 (Water Treatment Station) Sample ID #: _____
Field Technician: GB Filter Lot #: 19828-04
Pump Type/Model: SKC AirChek 2000
Pump Number: 36442

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 10-24-10 (GB) Flow Rate (L/min): 2
Time: 12:16 PM () Cumulative Sample Volume (L): 1472
Cumulative Sample Time (min): 736
Atmospheric Pressure (INS): 27.25
Temperature inside station unit (°F): 55.0 Pump/49.80X
Battery voltage reading (volts): 12.72
rain

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): NO
Date: 10-26-10 (GB) Flow Rate (L/min): 2
Time: 9:41 AM () Cumulative Sample Volume (L): 6923
Cumulative Sample Time (min): 3461
Atmospheric Pressure (INS): 27.61
Temperature inside station unit (°F): 49.2 Pump/44.80X
Battery voltage reading (volts): 12.65

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36442****Date Printed: Friday, October 29, 2010 10:09 AM****Min Temp 41.0F****Max Temp 59.9F****TWA Temp 51.2F****Min Pressure 27.2 In-Hg****Max Pressure 28.2 In-Hg****TWA Pressure 27.7 In-Hg****Flow Correction Approximately -30.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Oct 22 2010 12:52 PM			5:41
Sleep		Fri Oct 22 2010 12:58 PM			1d 11:01:33
Prog (Run)	2000	Sun Oct 24 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Oct 29 2010 12:00 AM			4:59
Sleep		Fri Oct 29 2010 12:05 AM			9:35:16
Hold		Fri Oct 29 2010 9:40 AM			5:15
Sleep		Fri Oct 29 2010 9:45 AM			22:33
Hold		Fri Oct 29 2010 10:08 AM			0:55+

Serial Number 36442

Oct 29, 2010

10:09 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery

Flow Calibrate

Approx Correction
-30.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
41.0	59.9	51.2	42.0

Pressure (in-Hg)

27.21	28.20	27.69	27.92
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0324

Station Location: T-4 (Troy Info Center)

Sample ID #: _____

Field Technician: JDFilter Lot #: 19828-04Pump Type/Model: SKC AirChek 2000Sample Type: TEMPump Number: 36446

Sample Parent ID #: _____

Sampling Period: 36

PUMP SETUP DAY

Date: 10-22-10Time: 12:03pmTimer Beginning Date/Time: 10-24-10/12:00AMBeginning Flow Rate (L/min): 2Pump Programmed (Yes / No): YesBios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10-29-10Time: 9:53amTimer Ending Date/Time: 10-29-10/12:00AMEnding Flow Rate (L/min): 2Total Sample Volume (L): 0FL0Total Sample Time (min): 7200Atmospheric Pressure (INS): 27.63Temperature inside station unit (°F): 47.1 pump/42.0X

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

scattered rain throughout sample
period

SIGNATURE: JDDATE: 10-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET

ADDITIONAL DAILY CHECK RECORDS

TA-0324

Station Location: T-4 (Troy Info Center)
Field Technician: 99
Pump Type/Model: SKC AirChek 2000
Pump Number: 36446

Sample ID #: _____
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 10-24-10 (99)
Time: 12:45 PM ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1531
Cumulative Sample Time (min): 765
Atmospheric Pressure (INS): 26.85
Temperature inside station unit (°F): 56.5 pump / 50 box
Battery voltage reading (volts): 12.76

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 10-26-10 (99)
Time: 9:35 AM ()

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 6909
Cumulative Sample Time (min): 3454
Atmospheric Pressure (INS): 27.25
Temperature inside station unit (°F): 50.9 pump / 44 box
Battery voltage reading (volts): 12.68

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: _____ ()
Time: _____ ()

PUMP FAULT (Yes / No): _____
Flow Rate (L/min): _____
Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS): _____
Temperature inside station unit (°F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36446****Date Printed: Friday, October 29, 2010 10:03 AM****Min Temp 43.7F****Max Temp 62.6F****TWA Temp 52.6F****Min Pressure 26.8 In-Hg****Max Pressure 27.8 In-Hg****TWA Pressure 27.3 In-Hg****Flow Correction Approximately -20.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Oct 22 2010 12:57 PM			5:40
Sleep		Fri Oct 22 2010 1:03 PM			1d 10:56:24
Prog (Run)	2000	Sun Oct 24 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Oct 29 2010 12:00 AM			4:59
Sleep		Fri Oct 29 2010 12:05 AM			9:48:23
Hold		Fri Oct 29 2010 9:53 AM			5:16
Sleep		Fri Oct 29 2010 9:58 AM			1:53
Hold		Fri Oct 29 2010 10:00 AM			2:27+

Serial Number 36446

Oct 29, 2010
10:04 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 168d 9:04:07

Battery  - +

Flow Calibrate

Approx Correction
-20.0 ml/min

Down Reset Up

☐ Multiple Pumps

Pump Controls

Run Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
43.7	62.6	52.6	41.4

Pressure (in-Hg)

26.78	27.78	27.33	27.62
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0325

Station Location: T-4QC (Troy Info Center)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36444

Sample Parent ID #:

Sampling Period: 36

TA-0324

PUMP SETUP DAY

Date: 10-22-10

Time: 12:04 PM

Timer Beginning Date/Time: 10-24-10/12:00 AM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10-29-10

Time: 9:55 AM

Timer Ending Date/Time: 10-29-10/12:00 AM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0.40

Total Sample Time (min): 7200

Atmospheric Pressure (INS): 27.67

Temperature inside station unit (°F): 53.7 Pump / 42 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Scattered rain showers throughout
sample period. JD

SIGNATURE: JD

DATE: 10-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET

ADDITIONAL DAILY CHECK RECORDS

TA-0325

Station Location: T-4QC (Troy Info Center)
Field Technician: JD
Pump Type/Model: SKC AirChek 2000
Pump Number: 36444

Sample ID #: _____
Filter Lot #: 19828-04

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): NO
Date: 10-24-10 (98) Flow Rate (L/min): 2
Time: 12:48pm () Cumulative Sample Volume (L): 1536
Cumulative Sample Time (min): 768
Atmospheric Pressure (INS) 26.88
Temperature inside station unit (F): 65.8 pump / 50.8ox
Battery voltage reading (volts): 12.27

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): NO
Date: 10-26-10 (98) Flow Rate (L/min): 2
Time: 9:37AM () Cumulative Sample Volume (L): 6914
Cumulative Sample Time (min): 3457
Atmospheric Pressure (INS) 27.24
Temperature inside station unit (F): 58.4 pump / 44.8ox
Battery voltage reading (volts): 12.12

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (F): _____
Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials) _____ PUMP FAULT (Yes / No): _____
Date: _____ () Flow Rate (L/min): _____
Time: _____ () Cumulative Sample Volume (L): _____
Cumulative Sample Time (min): _____
Atmospheric Pressure (INS) _____
Temperature inside station unit (F): _____
Battery voltage reading (volts): _____

SKC Pump History**SN 36444****Date Printed: Friday, October 29, 2010 10:19 AM****Min Temp 47.2F****Max Temp 72.0F****TWA Temp 60.7F****Min Pressure 26.9 In-Hg****Max Pressure 27.7 In-Hg****TWA Pressure 27.3 In-Hg****Flow Correction Approximately +20.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Oct 22 2010 1:04 PM			5:01
Sleep		Fri Oct 22 2010 1:09 PM			1d 10:50:10
Prog (Run)	2000	Sun Oct 24 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Oct 29 2010 12:00 AM			4:59
Sleep		Fri Oct 29 2010 12:05 AM			9:49:57
Hold		Fri Oct 29 2010 9:54 AM			5:18
Sleep		Fri Oct 29 2010 10:00 AM			18:36
Hold		Fri Oct 29 2010 10:18 AM			0:08+

Serial Number 36444

Oct 29, 2010
10:20 AM

Pump Real-Time Monitor

Pump Status | Hold

Flow 2000

Volume 14400.13

Run Time 5d 0:00:04

Total Time 166d 11:19:57

Battery  - +

Flow Calibrate

Approx Correction
+20.0 ml/min

Down Reset Up

☐ Multiple Pumps

Pump Controls

Run Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
47.2	72.0	60.7	44.3

Pressure (in-Hg)

26.85	27.74	27.32	27.71
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) 15

Number of Tries 10

Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-0326

Station Location: T-5 (State Shop)

Sample ID #:

Field Technician: JD

Filter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36427

Sample Parent ID #: ~

Sampling Period: 36

PUMP SETUP DAY

Date: 10-22-10

Time: 12:05pm

Timer Beginning Date/Time: 10-24-10/12:00AM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10-29-10

Time: 7:52am

Timer Ending Date/Time: 10-29-10/12:00AM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0FL0

Total Sample Time (min): 7200

Atmospheric Pressure (INS): 27.94

Temperature inside station unit (°F): 46.4 pump / 10 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

Scattered rain throughout sample period. JJ

SIGNATURE: Jim Jordan

DATE: 10-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-0326

Station Location: T-5 (State Shop)

Sample ID #:

Field Technician: JDFilter Lot #: 19828-04Pump Type/Model: SKC AirChek 2000Pump Number: 36427

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 10-24-10 (JD)Flow Rate (L/min): 2Time: 11:38 AM ()Cumulative Sample Volume (L): 1397Cumulative Sample Time (min): 698Atmospheric Pressure (INS): 27.24Temperature inside station unit (°F): 54.5 Pump / 46 BoxBattery voltage reading (volts): 12.55rain

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 10-26-10 (JD)Flow Rate (L/min): 2Time: 10:05 AM ()Cumulative Sample Volume (L): 6970Cumulative Sample Time (min): 3484Atmospheric Pressure (INS): 27.63Temperature inside station unit (°F): 49.2 Pump / 42 BoxBattery voltage reading (volts): 12.41

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36427****Date Printed: Friday, October 29, 2010 10:17 AM****Min Temp 42.4F****Max Temp 62.6F****TWA Temp 51.6F****Min Pressure 27.2 In-Hg****Max Pressure 28.2 In-Hg****TWA Pressure 27.7 In-Hg****Flow Correction Approximately +20.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Oct 22 2010 1:01 PM			6:06
Sleep		Fri Oct 22 2010 1:08 PM			1d 10:51:55
Prog (Run)	2000	Sun Oct 24 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Oct 29 2010 12:00 AM			4:59
Sleep		Fri Oct 29 2010 12:05 AM			7:47:11
Hold		Fri Oct 29 2010 7:52 AM			5:22
Sleep		Fri Oct 29 2010 7:57 AM			2:16:34
Hold		Fri Oct 29 2010 10:14 AM			2:52+

Serial Number 36427

Oct 29, 2010
10:17 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
+20.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
<input type="text" value="42.4"/>	<input type="text" value="62.6"/>	<input type="text" value="51.6"/>	<input type="text" value="54.3"/>

Pressure (in-Hg)

<input type="text" value="27.16"/>	<input type="text" value="28.15"/>	<input type="text" value="27.69"/>	<input type="text" value="28.06"/>
------------------------------------	------------------------------------	------------------------------------	------------------------------------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0327

Station Location: T-6 (Water Tower)

Sample ID #:

Field Technician: JA

Filter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Sample Type: TEM

Pump Number: 36422

Sample Parent ID #: -

Sampling Period: 36

PUMP SETUP DAY

Date: 10-24-10

Timer Beginning Date/Time: 10-24-10/12:00AM

Time: 12:06 PM

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

Date: 10-29-10

Timer Ending Date/Time: 10-29-10/12:00AM

Time: 7:59 AM

Ending Flow Rate (L/min): 2

Total Sample Volume (L): 0 FLO

Total Sample Time (min): 7200

Atmospheric Pressure (INS) 27.57

Temperature inside station unit (°F): 49.1 pump/39 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

scattered rain throughout sample
period.

SIGNATURE: Jim Jordan

DATE: 10-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET

ADDITIONAL DAILY CHECK RECORDS

TA-0327

Station Location: T-6 (Water Tower)

Sample ID #:

Field Technician: JDFilter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Pump Number: 36422

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 10-24-10 (JD)Flow Rate (L/min): 2Time: 11:50 AM ()Cumulative Sample Volume (L): 1419Cumulative Sample Time (min): 709Atmospheric Pressure (INS): 26.86Temperature inside station unit (°F): 59.2 pump/46 BoxBattery voltage reading (volts): 12.14

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 10-26-10 (JD)Flow Rate (L/min): 2Time: 10:10 AM ()Cumulative Sample Volume (L): 6980Cumulative Sample Time (min): 3490Atmospheric Pressure (INS): 27.19Temperature inside station unit (°F): 53.8 pump/41 BoxBattery voltage reading (volts): 11.94

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No):

Date: ()

Flow Rate (L/min):

Time: ()

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History**SN 36422****Date Printed: Friday, October 29, 2010 10:14 AM****Min Temp 41.2F****Max Temp 66.0F****TWA Temp 55.9F****Min Pressure 26.8 In-Hg****Max Pressure 27.7 In-Hg****TWA Pressure 27.3 In-Hg****Flow Correction Approximately -60.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Oct 22 2010 1:00 PM			5:53
Sleep		Fri Oct 22 2010 1:06 PM			1d 10:53:23
Prog (Run)	2000	Sun Oct 24 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Oct 29 2010 12:00 AM			4:59
Sleep		Fri Oct 29 2010 12:05 AM			7:54:21
Hold		Fri Oct 29 2010 7:59 AM			5:16
Sleep		Fri Oct 29 2010 8:04 AM			2:08:25
Hold		Fri Oct 29 2010 10:13 AM			0:57+

Serial Number 36422

Oct 29, 2010
10:15 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
-60.0 ml/min ☐ Multiple Pumps

Pump Controls

Temperatures (F)

Min	Max	TWA	Ambient
41.2	66.0	55.9	51.9

Pressure (in-Hg)

26.76	27.69	27.27	27.87
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-0328

Station Location: T-7 (Jay's Rental)
Field Technician: JS
Pump Type/Model: SKC AirChek 2000
Pump Number: 36428
Sampling Period:

Sample ID #: _____
Filter Lot #: 19828-04
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 10-22-10
Time: 12:07pm

Timer Beginning Date/Time: 10-24-10/12:00AM
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No): Yes

PUMP RETRIEVAL DAY

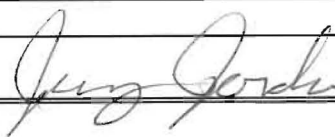
Date: 10-29-10
Time: 8:06 AM

Timer Ending Date/Time: 10-29-10/12:00AM
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FL0
Total Sample Time (min): 17200
Atmospheric Pressure (INS): 27.56
Temperature inside station unit (°F): 52, 3 pump / 44/80k

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault)

scattered rain throughout sample
period. JS

SIGNATURE:

DATE: 10-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-0328

Station Location: T-7 (Jay's Rental)

Sample ID #:

Field Technician: JP

Filter Lot #: 19828-04

Pump Type/Model: SKC AirChek 2000

Pump Number: 36428

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 10-24-10 (JP)Flow Rate (L/min): 2Time: 10:22 AM ()Cumulative Sample Volume (L): 1243Cumulative Sample Time (min): 621Atmospheric Pressure (INS): 26.80Temperature inside station unit (°F): 61.5 pump/50 BoxBattery voltage reading (volts): 12.58
rain

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): NODate: 10-26-10 (JP)Flow Rate (L/min): 2Time: 10:15 AM ()Cumulative Sample Volume (L): 6991Cumulative Sample Time (min): 3495Atmospheric Pressure (INS): 27.15Temperature inside station unit (°F): 58.2 pump/47 BoxBattery voltage reading (volts): 12.21

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): _____

Date: _____ ()

Flow Rate (L/min): _____

Time: _____ ()

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): _____

Date: _____ ()

Flow Rate (L/min): _____

Time: _____ ()

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

DAILY CHECK (For each station visit)

(Field Tech Initials)

PUMP FAULT (Yes / No): _____

Date: _____ ()

Flow Rate (L/min): _____

Time: _____ ()

Cumulative Sample Volume (L): _____

Cumulative Sample Time (min): _____

Atmospheric Pressure (INS): _____

Temperature inside station unit (°F): _____

Battery voltage reading (volts): _____

SKC Pump History**SN 36428****Date Printed: Friday, October 29, 2010 10:11 AM****Min Temp 43.6F****Max Temp 68.4F****TWA Temp 59.5F****Min Pressure 26.7 In-Hg****Max Pressure 27.7 In-Hg****TWA Pressure 27.2 In-Hg****Flow Correction Approximately -50.0 ml/min**

Mode	Value	Start	Volume Liters	Accum Volume	Duration
----	-----	-----	-----	-----	-----
Prog (Hold)		Fri Oct 22 2010 12:59 PM			5:15
Sleep		Fri Oct 22 2010 1:05 PM			1d 10:54:55
Prog (Run)	2000	Sun Oct 24 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Fri Oct 29 2010 12:00 AM			4:59
Sleep		Fri Oct 29 2010 12:05 AM			8:01:31
Hold		Fri Oct 29 2010 8:06 AM			5:16
Sleep		Fri Oct 29 2010 8:11 AM			1:56:14
Hold		Fri Oct 29 2010 10:08 AM			2:58+

Serial Number 36428

Oct 29, 2010

10:12 AM

Pump Real-Time Monitor

Pump Status Flow Volume Run Time Total Time Battery 
- +

Flow Calibrate

Approx Correction
-50.0 ml/min

Down

Reset

Up

☐ Multiple Pumps

Pump Controls

Run

Hold

Set
FlowReset Volume, Temp
Time and Pressure

Temperatures (F)

Min	Max	TWA	Ambient
43.6	68.4	59.5	55.5

Pressure (in-Hg)

26.68	27.66	27.21	27.99
-------	-------	-------	-------

Units Selection

☒ Fahrenheit ☐ Celsius☒ in-Hg ☐ millibar ☐ mm-Hg

Fault Options

Time to Fault (sec) Number of Tries

Set Fault Options